

TECHNOLOGY ASSESSMENT AND FORECAST REPORT

MECHANICAL CLASSES

1977 - December 1999



May 2000
U.S. PATENT AND TRADEMARK OFFICE
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A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

Technology Profile Report - MECHANICAL Classes

Explanation of Data

This Technology Profile Report profiles the patent activity for U.S. utility patents * granted between **1977** and **December 1999** in MECHANICAL technology discipline classes within the U.S. Patent Classification System (USPCS).

The report is generated by identifying appropriate Patent and Trademark Office (PTO) classes, i.e., those entirely or substantially pertinent to the technology discipline of interest. The patents in these classes are then included in the profile. This procedure results, in most cases, in the inclusion of the majority of patents relevant to the technology discipline and few, if any, patents which are not relevant. However, any patent listing provided should not be considered to be inclusive of all relevant patents, nor exclusive of all irrelevant patents.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes utility patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes patent GRANT data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data, as shown in the "**Pre 1986**" column, correspond to selected patents * in the data base which were granted during the period **1977 to 1985**.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 40% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 24 months, the patented application data for applications filed from **1997 to DECEMBER 1999** are incomplete.** This is because a significant number of the applications filed from **1997 to DECEMBER 1999**, which will ultimately become patents, were still pending in **DECEMBER 1999**. Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing

such as occurred in 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is determined by many factors, including PTO workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

"Patents Granted By Date of Patent Application", as shown in the "**Pre 1986**" column, correspond to patent grants in the report which were filed prior to **1986**.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity in the technology discipline. Part A1 presents data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted By Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Patent ownership information reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent ownership is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for the Foreign Government ownership category.

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received U.S. patents since **1977**.* Data line 1 for each listed organization ("Patents By Year of Grant") distributes counts of patent grants by year of grant. Data line 2 for each organization ("Patents By Year of Application") redistributes those same patent grants by year in which the patented applications were filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

* The term "patent", as used above, refers to "utility" patents. Other patent documents (i.e., design, plant and reissue patents, statutory invention registrations, defensive publications) are not included in this profile report.

** As of 12/31/99, utility patent application data are approximately 79% complete for utility patent applications filed in 1997 and 21% complete for applications filed in 1998. They are essentially complete for applications filed prior to 1997.

CHEMICAL, ELECTRICAL, MECHANICAL CLASSES

DECEMBER 1999

CHEMICAL	8	23	44	48	51	55	65	71	75	95	96	106	117	127
	136	148	149	156	159	162	196	201	202	203	204	205	208	209
	210	216	252	260	261	264	376	419	420	422	423	424	426	427
	428	429	430	435	436	438	442	501	502	504	507	508	510	512
	514	516	518	520	521	522	523	524	525	526	527	528	530	532
	534	536	540	544	546	548	549	552	554	556	558	560	562	564
	568	570	585	588	800	930	976	987						

The following subclasses are also Chemical:

134/1-42; 131/274-279; 505/100-126, 300-512, 725-785, 800-824, 951

ELECTRICAL	174	178	191	200	218	219	235	250	257	290	307	310	313	314
	315	318	320	322	323	324	326	327	329	330	331	332	333	334
	335	336	337	338	340	341	342	343	345	346	348	349	355	358
	360	361	362	363	364	365	367	368	369	370	371	372	373	375
	377	378	379	380	381	382	383	386	388	392	395	396	399	455
	503	505	700	701	702	704	705	706	707	708	709	710	711	712
	713	714	902											

The following subclasses are also Electrical:

84/600-746; 385/1-52; 359/1-195, 237-361, 558-590, 901-902; 968/876-977; 984/300-398

MECHANICAL		2	4	5	7		12	14	15	16		19	24	26
	27	28	29	30	33	34	36	37	38	40	42	43	47	49
	52	53	54	56	57	59	60	62	63	66	68	69	70	
	72	73	74	76	79	81	82	83	84	86	87	89	91	92
	99	100	101	102	104	105	108	109	110	111	112	114	116	118
	119	122	123	124	125	126	128		131	132	134	135	137	138
	139	140	141	142	144	147	150	152	157	160	163	164	165	166
	168	169	171	172	173	175	177	180	181	182	184	185	186	187
	188	190	192	193	194	198	199	206	211	212	213	215	217	220
	221	222	223	224	225	226	227	228	229	231	232	234	236	237
	238	239	241	242	244	245	246	248	249	251	254	256	258	266
	267	269	270	271		273	276	277	278	279	280	281	283	285
	289	291	292	293	294	295	296	297	298	299	300	301	303	305
	312	347	351	352	353	356	359	366	374	384	385	400	401	402
	403	404	405	406	407	408	409	410	411	412	413	414	415	416
	417	418	425	431	432	433	434	439	440	441	445	446	449	450
	451	452	453	454	460	462	463	464	470	472	473	474	475	476
	477	482	483	492	493	494	600	601	602	604	606	607	623	901
	968	984												

The following subclasses are also Mechanical:

209/3.1-3.3, 44-44.4, 509-707, 900-942; 8/147-159

TECHNOLOGY ASSESSMENT AND FORECAST PROGRAM TECHNOLOGY DISCIPLINES FOR
 U.S. PATENT CLASSIFICATION SYSTEM CLASSES AS OF DECEMBER 1999
CHEMICAL, ELECTRICAL, MECHANICAL

| Class |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2M | 76M | 148C | 213M | 279M | 348E | 409M | 476M | 602M |
| 4M | 79M | 149C | 215M | 280M | 349E | 410M | 477M | 604M |
| 5M | 81M | 150M | 216C | 281M | 351M | 411M | 482M | 606M |
| 7M | 82M | 152M | 217M | 283M | 352M | 412M | 483M | 607M |
| 8C* | 83M | 156C | 218E | 285M | 353M | 413M | 492M | 623M |
| 12M | 84M* | 157M | 219E | 289M | 355E | 414M | 493M | 700E |
| 14M | 86M | 159C | 220M | 290E | 356M | 415M | 494M | 701E |
| 15M | 87M | 160M | 221M | 291M | 358E | 416M | 501C | 702E |
| 16M | 89M | 162C | 222M | 292M | 359M* | 417M | 502C | 704E |
| 19M | 91M | 163M | 223M | 293M | 360E | 418M | 503E* | 705E |
| 23C | 92M | 164M | 224M | 294M | 361E | 419C | 504C | 706E |
| 24M | 95C | 165M | 225M | 295M | 362E | 420C | 505E* | 707E |
| 26M | 96C | 166M | 226M | 296M | 363E | 422C | 507C | 708E |
| 27M | 99M | 168M | 227M | 297M | 364E | 423C | 508C | 709E |
| 28M | 100M | 169M | 228M | 298M | 365E | 424C | 510C | 710E |
| 29M | 101M | 171M | 229M | 299M | 366M | 425M | 512C | 711E |
| 30M | 102M | 172M | 231M | 300M | 367E | 426C | 514C | 712E |
| 33M | 104M | 173M | 232M | 301M | 368E | 427C | 516C | 713E |
| 34M | 105M | 174E | 234M | 303M | 369E | 428C | 518C | 714E |
| 36M | 106C | 175M | 235E | 305M | 370E | 429C | 520C | 800C |
| 37M | 108M | 177M | 236M | 307E | 371E | 430C | 521C | 901M |
| 38M | 109M | 178E | 237M | 310E | 372E | 431M | 522C | 902E |
| 40M | 110M | 180M | 238M | 312M | 373E | 432M | 523C | 930C |
| 42M | 111M | 181M | 239M | 313E | 374M | 433M | 524C | 968M* |
| 43M | 112M | 182M | 241M | 314E | 375E | 434M | 525C | 976C |
| 44C | 114M | 184M | 242M | 315E | 376C | 435C | 526C | 984M* |
| 47M | 116M | 185M | 244M | 318E | 377E | 436C | 527C | 987C |
| 48C | 117C | 186M | 245M | 320E | 378E | 438C | 528C | |
| 49M | 118M | 187M | 246M | 322E | 379E | 439M | 530C | |
| 51C | 119M | 188M | 248M | 323E | 380E | 440M | 532C | |
| 52M | 122M | 190M | 249M | 324E | 381E | 441M | 534C | |
| 53M | 123M | 191E | 250E | 326E | 382E | 442C | 536C | |
| 54M | 124M | 192M | 251M | 327E | 383E | 445M | 540C | |
| 55C | 125M | 193M | 252C | 329E | 384M | 446M | 544C | |
| 56M | 126M | 194M | 254M | 330E | 385M* | 449M | 546C | |
| 57M | 127C | 196C | 256M | 331E | 386E | 450M | 548C | |
| 59M | 128M | 198M | 257E | 332E | 388E | 451M | 549C | |
| 60M | 131M* | 199M | 258M | 333E | 392E | 452M | 552C | |
| 62M* | 132M | 200E | 260C | 334E | 395E | 453M | 554C | |
| 63M | 134M* | 201C | 261C | 335E | 396E | 454M | 556C | |
| 65C | 135M | 202C | 264C | 336E | 399E | 455E | 558C | |
| 66M | 136C | 203C | 266M | 337E | 400M | 460M | 560C | |
| 68M | 137M | 204C | 267M | 338E | 401M | 462M | 562C | |
| 69M | 138M | 205C | 269M | 340E | 402M | 463M | 564C | |
| 70M | 139M | 206M | 270M | 341E | 403M | 464M | 568C | |
| 71C | 140M | 208C | 271M | 342E | 404M | 470M | 570C | |
| 72M | 141M | 209C* | 273M | 343E | 405M | 472M | 585C | |
| 73M | 142M | 210C | 276M | 345E | 406M | 473M | 588C | |
| 74M | 144M | 211M | 277M | 346E | 407M | 474M | 600M | |
| 75C | 147M | 212M | 278M | 347M | 408M | 475M | 601M | |

*8/147-159 are mechanical

*84/600-746 are electrical

*131/274-279 are chemical

*134/1-42 are chemical

*209/3.1-3.3, 44-44.4, 509-707, 900-942 are mechanical

*359/1-195, 237-361, 558-590, 901-902 are electrical

*385/1-52 are electrical

*505/100-126, 300-512, 725-785, 800-824, 951 are chemical

*968/876-977 are electrical

*984/300-398 are electrical

May 19, 2000

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USPTO, IPD-TAF Branch

Part A1

Patent Grants as Distributed By Year of Patent Grant

	---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 1999) ----															
	----- NUMBER OF PATENTS -----															
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total
Total	269665	35365	40753	37210	44222	42022	44616	43588	42448	44201	42257	44678	44280	56844	58730	890879
U.S. Origin	168081	19588	22232	20387	25148	23791	25611	25433	25225	26902	25806	27233	26076	33159	34110	528782
Foreign Origin	101584	15777	18521	16823	19074	18231	19005	18155	17223	17299	16451	17445	18204	23685	24620	362097
JAPAN	26884	5114	6214	5866	6647	6485	6872	6849	6522	6244	5759	6238	6575	8464	8845	119578
GERMANY	24779	3770	4260	3729	4079	3768	3817	3532	3289	3275	3016	3181	3251	4205	4422	76373
FRANCE	8343	1163	1352	1216	1406	1269	1301	1326	1196	1160	1087	1035	1093	1340	1386	25673
UNITED KINGDOM	9457	1144	1379	1130	1315	1187	1202	961	911	872	946	948	973	1190	1177	24792
CANADA	5911	819	991	894	1141	1124	1237	1125	1095	1153	1172	1128	1253	1453	1504	22000
SWITZERLAND	4636	607	670	612	649	623	664	591	496	558	442	498	460	589	553	12648
ITALY	3588	591	708	609	685	671	634	700	623	602	530	544	586	759	706	12536
TAIWAN	530	168	272	358	454	523	686	712	818	995	984	1137	1134	1559	1815	12145
SWEDEN	4358	577	642	511	502	474	469	377	371	401	439	403	397	617	612	11150
NETHERLANDS	2200	273	337	289	343	324	333	295	244	279	255	247	260	358	391	6428
AUSTRALIA	1585	277	246	285	325	287	271	261	234	284	261	294	267	406	383	5666
AUSTRIA	1584	263	248	198	245	266	209	218	190	179	203	220	190	201	257	4671
SOUTH KOREA	92	31	44	45	62	76	105	143	210	203	246	360	466	802	789	3674
ISRAEL	593	94	126	133	150	141	152	167	123	150	155	165	211	287	257	2904
FINLAND	653	117	152	133	120	156	156	163	118	123	138	178	188	219	217	2831
BELGIUM	723	100	102	117	120	121	109	109	91	97	101	118	109	197	159	2373
DENMARK	745	106	131	89	108	77	119	94	94	96	86	114	138	154	167	2318
U.S.S.R.	1228	66	82	61	88	100	99	35	38	21	7	2	1	1		1829
SPAIN	405	68	88	81	81	86	104	74	94	85	95	78	92	122	128	1681
NORWAY	483	55	82	74	84	74	61	59	67	73	75	72	86	120	131	1596
SOUTH AFRICA	422	60	80	66	91	66	57	55	56	69	76	65	50	64	62	1339
NEW ZEALAND	286	38	52	45	34	39	23	25	27	19	27	29	52	61	64	821
CHINA,HONG KONG S.A.R	103	16	17	21	22	26	28	31	34	33	49	53	44	88	81	646
BRAZIL	138	21	23	19	23	29	45	27	40	41	39	44	44	44	58	635
HUNGARY	224	46	34	23	46	28	18	17	8	7	8	9	9	13	16	506
MEXICO	175	20	18	21	22	17	13	21	16	20	21	21	24	33	38	480
IRELAND	116	11	11	18	30	24	22	24	26	26	15	32	24	35	46	460
CZECHOSLOVAKIA	249	20	17	15	19	23	18	3	5	10	10	3	2	3	1	398
LUXEMBOURG	141	24	14	24	24	12	26	18	22	19	17	14	16	10	15	396
ARGENTINA	117	9	15	13	15	11	8	15	21	23	20	16	23	28	35	369
CHINA P.REP.	6	6	10	25	25	20	25	15	22	21	25	15	12	13	37	277
SINGAPORE	20	3	9	6	11	5	12	12	15	22	17	27	19	27	34	239
RUSSIAN FEDERATION									1	15	36	43	31	54	43	223
LIECHTENSTEIN	83	10	16	10	11	12	9	12	5	12	9	5	8	10	5	217
VENEZUELA	49	9	8	10	7	7	12	12	15	7	13	11	5	5	12	182
POLAND	105	6	6	3	5	10	7	3	3	4	2	7	3	6	8	178
Others (103)	573	75	65	74	85	70	82	74	83	101	70	91	108	148	166	1865
Ownership:																
U.S. Corporations	103842	12247	13907	12700	15265	14287	15500	15731	15844	17088	16439	17334	16963	21688	22648	331483
U.S. Government	3836	338	317	229	310	307	410	373	382	383	295	253	276	293	264	8266
U.S. Individuals	64297	7545	8616	7890	10114	9776	10359	9826	9514	9957	9653	10254	9438	11991	12139	201369
Foreign Corporations	74702	12184	14376	13166	14826	14120	14626	14326	13559	13390	12598	13591	14242	18650	19475	277831
Foreign Government	996	190	225	146	134	132	133	142	143	97	83	86	81	57	36	2681
Foreign Individuals	21992	2861	3312	3079	3573	3400	3588	3190	3006	3286	3189	3160	3280	4165	4168	69249

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 1999) ----

	PERCENT OF PATENTS															
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	62	55	55	55	57	57	57	58	59	61	61	61	59	58	58	59
Foreign Origin	38	45	45	45	43	43	43	42	41	39	39	39	41	42	42	41
JAPAN	10	14	15	16	15	15	15	16	15	14	14	14	15	15	15	13
GERMANY	9	11	10	10	9	9	9	8	8	7	7	7	7	7	8	9
FRANCE	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	3
UNITED KINGDOM	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	3
CANADA	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2
SWITZERLAND	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
ITALY	1	2	2	2	2	2	1	2	1	1	1	1	1	1	1	1
TAIWAN			1	1	1	1	2	2	2	2	2	3	3	3	3	1
SWEDEN	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
NETHERLANDS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AUSTRALIA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AUSTRIA	1	1	1	1	1	1		1								1
SOUTH KOREA											1	1	1	1	1	0
ISRAEL														1		0
FINLAND																0
BELGIUM																0
DENMARK																0
U.S.S.R.																0
SPAIN																0
NORWAY																0
SOUTH AFRICA																0
NEW ZEALAND																0
CHINA,HONG KONG S.A.R																0
BRAZIL																0
HUNGARY																0
MEXICO																0
IRELAND																0
CZECHOSLOVAKIA																0
LUXEMBOURG																0
ARGENTINA																0
CHINA P.REP.																0
SINGAPORE																0
RUSSIAN FEDERATION																0
LIECHTENSTEIN																0
VENEZUELA																0
POLAND																0
Others (103)																0
Ownership:																
U.S. Corporations	39	35	34	34	35	34	35	36	37	39	39	39	38	38	39	37
U.S. Government	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1
U.S. Individuals	24	21	21	21	23	23	23	23	22	23	23	23	21	21	21	23
Foreign Corporations	28	34	35	35	34	34	33	33	32	30	30	30	32	33	33	31
Foreign Government		1	1													0
Foreign Individuals	8	8	8	8	8	8	8	7	7	7	8	7	7	7	7	8

Part A2

Patent Grants as Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 1999) ----

	NUMBER OF PATENTED APPLICATIONS															
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total
Total	335891	35461	37899	41006	42801	44616	44079	44840	46394	49081	51604	52138	47490	16817	762	890879
U.S. Origin	204223	19368	21081	23198	24181	26029	26075	27026	28513	29708	31387	29943	27477	10094	479	528782
Foreign Origin	131668	16093	16818	17808	18620	18587	18004	17814	17881	19373	20217	22195	20013	6723	283	362097
JAPAN	36791	5420	5780	6271	6947	6827	6807	6771	6452	6907	7266	7986	7184	2096	73	119578
GERMANY	31767	3695	3685	3710	3781	3763	3400	3380	3252	3526	3602	3957	3624	1193	38	76373
FRANCE	10601	1200	1217	1315	1270	1282	1259	1214	1203	1159	1226	1258	1136	322	11	25673
UNITED KINGDOM	11811	1102	1174	1170	1132	1096	937	907	931	1104	1111	1105	908	299	5	24792
CANADA	7405	830	988	1099	1170	1139	1221	1105	1287	1288	1402	1381	1213	458	14	22000
SWITZERLAND	5784	604	562	629	685	604	560	519	504	507	561	550	431	144	4	12648
ITALY	4691	586	617	699	637	664	650	662	562	634	609	715	629	177	4	12536
TAIWAN	822	284	387	422	505	671	769	847	1043	1164	1224	1425	1539	964	79	12145
SWEDEN	5428	510	462	473	461	407	399	413	458	472	445	527	521	168	6	11150
NETHERLANDS	2769	271	276	336	322	311	272	262	305	289	279	329	326	77	4	6428
AUSTRALIA	2089	281	281	278	259	281	263	260	305	297	319	392	271	87	3	5666
AUSTRIA	2034	212	193	252	223	231	211	182	189	231	234	201	197	76	5	4671
SOUTH KOREA	153	40	56	69	94	133	172	216	227	393	472	771	671	199	8	3674
ISRAEL	791	124	142	142	148	148	146	144	164	218	238	229	200	67	3	2904
FINLAND	887	126	136	125	151	168	143	128	136	186	211	207	170	55	2	2831
BELGIUM	903	96	121	109	124	112	96	104	107	115	141	168	133	43	1	2373
DENMARK	945	100	97	94	75	126	105	77	93	128	153	157	120	44	4	2318
U.S.S.R.	1359	65	83	76	89	78	42	27	5	4	1					1829
SPAIN	539	83	71	80	95	95	78	101	91	98	97	115	106	30	2	1681
NORWAY	595	82	72	79	50	69	66	67	84	87	96	117	104	27	1	1596
SOUTH AFRICA	550	58	94	48	71	59	53	62	92	77	49	59	48	18	1	1339
NEW ZEALAND	369	45	37	26	36	24	27	20	24	38	54	57	53	11		821
CHINA,HONG KONG S.A.R	129	21	19	26	23	34	29	36	38	64	57	77	55	33	5	646
BRAZIL	177	19	23	18	44	33	39	37	40	59	40	46	44	13	3	635
HUNGARY	300	26	32	36	23	17	9	6	7	10	13	13	8	6		506
MEXICO	209	19	14	21	20	14	17	25	19	24	27	30	31	10		480
IRELAND	138	15	26	26	22	24	26	23	19	38	30	34	33	6		460
CZECHOSLOVAKIA	285	15	10	30	14	8	5	10	12	3	2	3	1			398
LUXEMBOURG	176	23	18	19	18	20	22	20	15	24	14	14	9	4		396
ARGENTINA	135	17	18	6	6	19	20	18	25	20	24	27	22	12		369
CHINA P.REP.	17	26	23	22	17	15	27	22	32	15	10	16	29	5	1	277
SINGAPORE	32	6	6	7	12	6	13	27	18	27	27	23	21	13	1	239
RUSSIAN FEDERATION								11	35	43	44	44	39	5	2	223
LIECHTENSTEIN	103	12	13	9	12	9	9	11	8	8	5	10	5	3		217
VENEZUELA	61	9	12	4	6	15	18	12	11	11	5	7	8	2	1	182
POLAND	116	3	5	8	7	6	3		5	7	2	7	6	3		178
Others (103)	707	68	68	74	71	79	91	88	83	98	127	138	118	53	2	1865
Ownership:																
U.S. Corporations	126856	12063	12866	14043	14667	15850	16302	17287	18257	18931	20406	19733	17971	5992	259	331483
U.S. Government	4552	244	219	286	303	385	377	382	356	279	280	295	240	65	3	8266
U.S. Individuals	77726	7554	8412	9379	9791	10401	9922	9874	10563	11148	11374	10708	9999	4289	229	201369
Foreign Corporations	97990	12535	13013	13908	14574	14470	14157	14101	13729	15000	15904	17538	15766	4977	169	277831
Foreign Government	1373	155	140	113	140	138	131	124	88	93	93	57	30	6		2681
Foreign Individuals	27394	2910	3249	3277	3326	3372	3190	3072	3401	3630	3547	3807	3484	1488	102	69249

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 1999) ----

	PERCENT OF PATENTED APPLICATIONS															
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	61	55	56	57	56	58	59	60	61	61	61	57	58	60	63	59
Foreign Origin	39	45	44	43	44	42	41	40	39	39	39	43	42	40	37	41
JAPAN	11	15	15	15	16	15	15	15	14	14	14	15	15	12	10	13
GERMANY	9	10	10	9	9	8	8	8	7	7	7	8	8	7	5	9
FRANCE	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	3
UNITED KINGDOM	4	3	3	3	3	2	2	2	2	2	2	2	2	2	1	3
CANADA	2	2	3	3	3	3	3	2	3	3	3	3	3	3	2	2
SWITZERLAND	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1
ITALY	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
TAIWAN		1	1	1	1	2	2	2	2	2	2	3	3	6	10	1
SWEDEN	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NETHERLANDS	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1
AUSTRALIA	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1
AUSTRIA	1	1	1	1	1	1									1	1
SOUTH KOREA										1	1	1	1	1	1	0
ISRAEL																0
FINLAND																0
BELGIUM																0
DENMARK															1	0
U.S.S.R.																0
SPAIN																0
NORWAY																0
SOUTH AFRICA																0
NEW ZEALAND																0
CHINA,HONG KONG S.A.R															1	0
BRAZIL																0
HUNGARY																0
MEXICO																0
IRELAND																0
CZECHOSLOVAKIA																0
LUXEMBOURG																0
ARGENTINA																0
CHINA P.REP.																0
SINGAPORE																0
RUSSIAN FEDERATION																0
LIECHTENSTEIN																0
VENEZUELA																0
POLAND																0
Others (103)																0
Ownership:																
U.S. Corporations	38	34	34	34	34	36	37	39	39	39	40	38	38	36	34	37
U.S. Government	1	1	1	1	1	1	1	1	1	1	1	1	1			1
U.S. Individuals	23	21	22	23	23	23	23	22	23	23	22	21	21	26	30	23
Foreign Corporations	29	35	34	34	34	32	32	31	30	31	31	34	33	30	22	31
Foreign Government																0
Foreign Individuals	8	8	9	8	8	8	7	7	7	7	7	7	7	9	13	8

Part B

Ranked Listing of Organizations with PATENT GRANTS

As Distributed By Year of Patent Grant

and As Distributed By Year of Patent Application

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
GENERAL MOTORS CORPORATION																
Patents By Year of Grant:	1826	218	266	290	305	281	349	302	325	247	206	206	205	239	213	5478
Patents By Year of Application:	2165	260	260	285	317	297	329	329	259	235	224	245	182	90	1	5478
GENERAL ELECTRIC COMPANY																
Patents By Year of Grant:	1728	145	142	134	169	179	171	272	354	363	211	240	203	221	184	4716
Patents By Year of Application:	2016	127	129	178	145	265	298	350	296	264	252	185	174	36	1	4716
HONDA GIKEN KOGYO KABUSHIKI KAISHA (HONDA MOTOR CO., LTD.)																
Patents By Year of Grant:	887	242	351	323	284	303	193	142	173	146	160	197	227	242	306	4176
Patents By Year of Application:	1395	306	313	274	236	143	160	171	145	201	258	240	239	95	0	4176
NISSAN MOTOR COMPANY, LIMITED																
Patents By Year of Grant:	1848	219	237	174	196	263	236	239	140	89	62	65	90	105	147	4110
Patents By Year of Application:	2283	193	138	223	247	226	197	102	69	76	89	122	102	42	1	4110
CANON KABUSHIKI KAISHA																
Patents By Year of Grant:	639	126	235	172	227	191	184	264	267	211	203	317	255	382	423	4096
Patents By Year of Application:	973	206	149	179	210	243	278	286	282	345	417	282	224	21	1	4096
ROBERT BOSCH GMBH																
Patents By Year of Grant:	1442	175	169	149	135	152	182	191	270	205	194	181	172	216	226	4059
Patents By Year of Application:	1761	130	126	116	174	192	240	257	181	212	183	229	212	46	0	4059
TOYOTA JIDOSHA K.K.																
Patents By Year of Grant:	1508	195	319	241	192	112	118	109	100	97	108	93	159	267	251	3869
Patents By Year of Application:	1901	281	187	132	115	113	103	119	102	100	129	261	272	54	0	3869
HITACHI, LTD																
Patents By Year of Grant:	1121	208	191	202	189	188	193	198	170	150	142	132	159	135	115	3493
Patents By Year of Application:	1484	185	181	196	234	191	158	167	148	156	156	134	81	22	0	3493
MITSUBISHI DENKI KABUSHIKI KAISHA																
Patents By Year of Grant:	416	139	141	170	202	226	234	237	179	173	163	111	145	137	147	2820
Patents By Year of Application:	649	134	158	227	237	226	235	190	189	123	145	144	125	37	1	2820
CATERPILLAR INC.																
Patents By Year of Grant:	1436	40	44	35	51	40	64	46	88	88	102	151	151	149	184	2669
Patents By Year of Application:	1501	45	35	37	47	62	62	97	92	156	159	182	148	45	1	2669
FORD MOTOR COMPANY																
Patents By Year of Grant:	640	71	96	97	104	108	118	145	176	208	230	254	160	64	85	2556
Patents By Year of Application:	780	78	111	104	95	128	142	188	283	228	231	89	60	36	3	2556

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
UNITED STATES OF AMERICA, NAVY																
Patents By Year of Grant:	1129	62	66	29	45	84	136	93	124	120	112	87	114	115	114	2430
Patents By Year of Application:	1352	30	27	48	64	112	97	122	115	105	104	123	102	27	2	2430
SIEMENS AKTIENGESELLSCHAFT																
Patents By Year of Grant:	733	95	108	135	157	112	126	90	95	99	102	100	111	123	153	2339
Patents By Year of Application:	914	119	140	121	112	101	92	113	121	103	115	115	113	59	1	2339
INTERNATIONAL BUSINESS MACHINES CORPORATION																
Patents By Year of Grant:	843	93	69	65	55	72	79	99	108	108	108	117	125	190	207	2338
Patents By Year of Application:	986	64	48	76	64	85	114	135	107	131	157	166	144	60	1	2338
TOSHIBA CORPORATION																
Patents By Year of Grant:	496	132	143	150	158	129	155	177	150	134	108	104	86	110	96	2328
Patents By Year of Application:	755	123	148	127	157	173	170	138	121	113	114	99	65	24	1	2328
UNITED TECHNOLOGIES CORPORATION																
Patents By Year of Grant:	777	95	115	118	138	79	97	138	127	112	138	98	71	87	63	2253
Patents By Year of Application:	987	94	116	116	100	107	134	132	128	133	85	69	43	9	0	2253
WESTINGHOUSE ELECTRIC CORP.																
Patents By Year of Grant:	879	132	184	152	148	135	124	139	79	57	65	50	28	35	3	2210
Patents By Year of Application:	1170	124	128	145	132	143	102	69	63	68	37	22	7	0	0	2210
AMP INCORPORATED																
Patents By Year of Grant:	783	109	178	170	205	189	223	205	118	1	0	1	0	0	0	2182
Patents By Year of Application:	1009	157	146	167	208	191	194	109	0	1	0	0	0	0	0	2182
MINNESOTA MINING AND MANUFACTURING COMPANY																
Patents By Year of Grant:	453	70	96	98	114	99	139	127	86	151	154	142	139	178	78	2124
Patents By Year of Application:	603	94	94	112	113	110	129	120	159	197	151	147	86	9	0	2124
XEROX CORPORATION																
Patents By Year of Grant:	531	52	57	75	82	63	111	125	123	135	113	130	114	153	109	1973
Patents By Year of Application:	648	47	72	72	82	130	115	158	141	158	132	115	82	21	0	1973
DAIMLER-BENZ AKTIENGESELLSCHAFT																
Patents By Year of Grant:	568	71	86	83	114	94	91	78	102	73	78	99	117	176	119	1949
Patents By Year of Application:	694	83	90	95	94	90	80	93	83	101	118	157	143	28	0	1949
EASTMAN KODAK COMPANY																
Patents By Year of Grant:	183	47	39	50	105	124	136	143	197	158	113	104	128	230	182	1939
Patents By Year of Application:	253	46	58	115	140	165	179	196	154	92	131	204	154	52	0	1939

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
AISIN SEIKI KABUSHIKI KAISHA																
Patents By Year of Grant:	551	96	116	115	123	96	124	108	82	55	49	72	62	101	101	1851
Patents By Year of Application:	737	93	120	109	99	123	96	68	60	67	68	100	86	25	0	1851
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.																
Patents By Year of Grant:	362	65	65	65	67	79	88	120	126	112	120	111	100	162	144	1786
Patents By Year of Application:	480	66	53	68	89	103	127	127	138	105	143	132	119	34	2	1786
UNITED STATES OF AMERICA, ARMY																
Patents By Year of Grant:	904	90	58	43	61	57	70	55	66	82	61	47	67	68	53	1782
Patents By Year of Application:	1054	50	41	50	60	56	60	83	69	53	67	68	55	16	0	1782
ALLIED-SIGNAL INC.																
Patents By Year of Grant:	419	107	129	97	110	94	111	116	96	106	78	84	57	60	55	1719
Patents By Year of Application:	643	87	90	94	113	108	113	120	75	79	73	58	45	21	0	1719
OLYMPUS OPTICAL CO., LTD.																
Patents By Year of Grant:	501	49	76	96	93	77	70	81	84	72	77	85	99	133	109	1702
Patents By Year of Application:	622	63	95	81	78	83	93	85	101	92	113	95	82	18	1	1702
BOEING COMPANY																
Patents By Year of Grant:	639	78	109	93	117	87	94	91	53	39	42	38	57	83	75	1695
Patents By Year of Application:	857	76	85	106	89	74	71	45	47	21	97	71	41	14	1	1695
DEERE + COMPANY																
Patents By Year of Grant:	658	73	94	80	100	82	83	57	84	54	63	59	51	63	77	1678
Patents By Year of Application:	780	98	78	79	76	72	72	75	68	57	64	60	66	29	4	1678
HEWLETT-PACKARD COMPANY																
Patents By Year of Grant:	108	24	27	48	67	64	74	76	79	97	152	157	179	242	251	1645
Patents By Year of Application:	147	41	64	50	85	79	86	113	147	188	230	204	155	52	4	1645
EATON CORPORATION																
Patents By Year of Grant:	532	64	62	64	85	76	73	98	88	80	87	91	71	61	102	1634
Patents By Year of Application:	647	42	80	68	78	79	82	104	99	90	68	80	75	41	1	1634
MAZDA MOTOR CORPORATION																
Patents By Year of Grant:	249	80	124	139	126	108	174	178	138	102	79	38	31	38	30	1634
Patents By Year of Application:	413	118	130	114	130	182	174	116	94	70	30	31	26	6	0	1634
U.S. PHILIPS CORPORATION																
Patents By Year of Grant:	576	76	121	87	99	90	95	61	42	47	47	47	45	81	98	1612
Patents By Year of Application:	745	108	78	80	94	79	55	46	44	57	55	69	86	14	2	1612

--- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) --- Ranked List of Organizations with 200 or More Patents ---

	Pre	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
NIPPONDENSO CO., LTD.																
Patents By Year of Grant:	427	80	106	62	61	39	35	53	68	94	98	156	147	108	28	1562
Patents By Year of Application:	585	66	66	40	35	45	55	93	110	127	180	137	19	3	1	1562
AT&T CORP.																
Patents By Year of Grant:	707	59	65	49	64	66	57	75	82	60	66	45	1	5	8	1409
Patents By Year of Application:	829	48	36	52	69	64	76	76	80	55	11	4	6	3	0	1409
YAZAKI CORP.																
Patents By Year of Grant:	12	3	8	24	44	77	51	83	92	88	80	125	186	203	221	1297
Patents By Year of Application:	18	17	31	50	63	48	102	95	101	136	175	213	188	58	2	1297
CHRYSLER MOTORS CORPORATION																
Patents By Year of Grant:	145	27	58	44	70	77	63	38	52	80	89	120	107	107	157	1234
Patents By Year of Application:	193	45	47	72	75	62	39	70	86	121	127	133	118	45	1	1234
BROTHER KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	99	26	37	44	82	72	115	109	70	81	74	64	68	114	156	1211
Patents By Year of Application:	150	45	69	55	93	116	81	106	74	91	73	127	81	47	3	1211
E. I. DU PONT DE NEMOURS AND COMPANY																
Patents By Year of Grant:	449	52	65	56	65	59	85	72	76	59	33	39	20	26	19	1175
Patents By Year of Application:	540	54	59	54	77	83	83	68	44	33	33	21	22	4	0	1175
FUJI PHOTO FILM CO., LTD																
Patents By Year of Grant:	180	35	52	51	100	91	75	85	61	53	61	69	63	94	88	1158
Patents By Year of Application:	266	37	82	86	87	68	82	70	66	73	57	89	81	13	1	1158
MEDTRONIC INC.																
Patents By Year of Grant:	225	15	10	15	10	27	28	59	54	100	72	74	79	215	172	1155
Patents By Year of Application:	258	10	13	15	32	48	53	76	97	81	101	157	160	53	1	1155
UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION																
Patents By Year of Grant:	443	44	55	52	61	56	66	63	74	57	45	33	34	30	42	1155
Patents By Year of Application:	531	44	41	67	53	62	77	65	62	41	39	33	35	5	0	1155
LUCAS INDUSTRIES PUBLIC LTD. COMPANY																
Patents By Year of Grant:	476	58	67	59	75	66	55	30	34	25	38	43	43	45	34	1148
Patents By Year of Application:	576	58	70	67	56	49	33	27	31	43	50	50	28	10	0	1148
UNITED STATES OF AMERICA, DEPARTMENT OF ENERGY																
Patents By Year of Grant:	553	49	50	49	54	61	57	56	45	50	28	22	24	22	4	1124
Patents By Year of Application:	647	41	42	53	65	54	53	48	47	15	27	23	7	2	0	1124

MECHANICAL CLASSES (12-31-99)

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
YAMAHA HATSUDOKI KABUSHIKI KAISHA, YAMAHA MOTOR CO., LTD.																
Patents By Year of Grant:	222	40	51	38	24	61	69	80	81	52	53	69	68	119	93	1120
Patents By Year of Application:	305	45	28	31	69	81	73	78	60	78	73	110	77	12	0	1120
ROCKWELL INTERNATIONAL CORPORATION																
Patents By Year of Grant:	551	55	55	48	45	44	53	59	47	50	28	30	16	5	3	1089
Patents By Year of Application:	680	44	33	44	48	41	61	47	37	27	19	4	4	0	0	1089
WHITAKER CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	55	149	169	176	165	169	184	1067
Patents By Year of Application:	0	0	0	0	0	0	4	89	191	208	179	193	174	29	0	1067
HONEYWELL INC.																
Patents By Year of Grant:	375	43	55	49	72	52	58	43	45	60	57	40	23	38	46	1056
Patents By Year of Application:	467	41	49	71	49	58	56	52	67	37	31	28	42	8	0	1056
NIKON CORPORATION																
Patents By Year of Grant:	163	25	47	27	20	18	25	23	28	33	50	106	151	195	116	1027
Patents By Year of Application:	236	21	11	22	22	22	28	34	48	106	150	170	133	24	0	1027
HALLIBURTON CO.																
Patents By Year of Grant:	270	62	80	48	53	47	44	46	61	140	61	72	23	19	0	1026
Patents By Year of Application:	374	58	35	59	56	40	58	109	107	58	47	21	4	0	0	1026
RICOH COMPANY, LTD.																
Patents By Year of Grant:	276	53	58	44	57	53	65	67	46	52	44	42	37	57	56	1007
Patents By Year of Application:	373	56	36	53	56	81	48	60	53	46	41	51	42	11	0	1007
CARRIER CORPORATION																
Patents By Year of Grant:	353	34	30	41	45	44	67	54	48	55	58	38	35	51	51	1004
Patents By Year of Application:	407	41	39	41	48	59	60	42	59	58	40	50	38	22	0	1004
MOBIL OIL CORP.																
Patents By Year of Grant:	348	82	72	65	83	70	51	48	45	46	39	19	9	6	10	993
Patents By Year of Application:	473	68	77	65	58	47	53	43	49	25	16	7	10	2	0	993
UNISYS CORPORATION																
Patents By Year of Grant:	788	55	21	14	14	9	15	4	4	5	13	11	8	7	8	976
Patents By Year of Application:	862	13	17	11	9	10	4	0	10	14	8	10	6	2	0	976
UNITED STATES OF AMERICA, AIR FORCE																
Patents By Year of Grant:	439	64	63	37	61	25	41	55	39	40	16	18	18	27	26	969
Patents By Year of Application:	558	57	46	37	26	51	41	36	26	23	16	22	18	11	1	969

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
YOSHIDA KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	424	84	65	52	67	45	60	48	33	45	40	6	0	0	0	969
Patents By Year of Application:	542	60	49	50	50	61	45	31	60	21	0	0	0	0	0	969
BAXTER INTERNATIONAL INC.																
Patents By Year of Grant:	342	30	39	31	56	40	51	39	40	53	48	44	31	48	58	950
Patents By Year of Application:	408	41	43	48	45	40	43	44	58	49	53	37	34	7	0	950
PROCTER + GAMBLE COMPANY																
Patents By Year of Grant:	153	21	36	22	31	26	42	31	38	59	50	99	99	106	136	949
Patents By Year of Application:	200	22	37	24	33	33	31	53	61	88	111	131	98	26	1	949
SONY CORPORATION																
Patents By Year of Grant:	117	15	28	28	28	23	26	43	60	67	85	90	106	115	99	930
Patents By Year of Application:	161	19	27	27	29	27	56	79	71	104	108	118	81	20	3	930
MOTOROLA, INC.																
Patents By Year of Grant:	173	26	46	31	32	32	51	49	57	81	70	60	66	73	72	919
Patents By Year of Application:	221	41	28	24	46	52	59	65	83	74	80	76	56	13	1	919
FMC CORPORATION																
Patents By Year of Grant:	443	32	38	23	26	32	39	42	35	29	24	26	28	49	42	908
Patents By Year of Application:	502	32	22	33	33	36	45	27	32	26	28	43	37	11	1	908
SAMSUNG ELECTRONICS CO., LTD.																
Patents By Year of Grant:	0	0	2	2	5	12	19	39	73	43	61	83	84	227	250	900
Patents By Year of Application:	1	1	6	6	23	35	47	64	57	87	91	205	208	69	0	900
HUGHES AIRCRAFT COMPANY																
Patents By Year of Grant:	138	22	34	42	68	55	85	70	95	103	72	54	29	13	1	881
Patents By Year of Application:	197	41	44	63	75	69	100	113	85	51	30	13	0	0	0	881
ASAHI KOGAKU KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	111	11	16	26	19	40	43	44	82	68	46	76	57	107	121	867
Patents By Year of Application:	139	15	21	29	52	55	64	87	50	80	62	90	85	38	0	867
ILLINOIS TOOL WORKS INC.																
Patents By Year of Grant:	241	31	27	26	17	26	38	37	58	23	43	58	69	95	71	860
Patents By Year of Application:	290	24	22	17	25	42	36	48	41	58	78	81	69	27	2	860
HEIDELBERGER DRUCKMASCHINEN AG																
Patents By Year of Grant:	81	26	23	17	24	19	52	56	38	57	91	82	82	121	90	859
Patents By Year of Application:	130	13	20	26	33	59	32	47	97	89	109	96	74	32	2	859

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	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
UNITED STATES SURGICAL CORPORATION																
Patents By Year of Grant:	54	16	5	8	6	12	26	43	43	100	141	125	85	88	84	836
Patents By Year of Application:	77	4	9	8	17	46	49	98	143	121	110	87	57	10	0	836
BRIDGESTONE CORPORATION																
Patents By Year of Grant:	204	34	29	51	58	46	46	54	52	55	47	27	34	40	51	828
Patents By Year of Application:	271	29	64	50	48	57	46	61	34	37	47	36	40	7	1	828
TRW INC.																
Patents By Year of Grant:	269	28	39	21	32	21	18	25	43	37	39	49	55	64	76	816
Patents By Year of Application:	325	25	20	31	20	22	43	43	37	31	67	70	63	18	1	816
DRESSER INDUSTRIES, INC.																
Patents By Year of Grant:	420	44	48	37	31	18	28	27	17	18	11	13	21	23	37	793
Patents By Year of Application:	501	32	33	27	15	33	20	17	10	22	21	25	25	10	2	793
TEXAS INSTRUMENTS, INCORPORATED																
Patents By Year of Grant:	170	23	24	23	35	32	38	59	44	50	59	63	68	54	48	790
Patents By Year of Application:	225	15	27	40	33	48	53	46	59	59	98	44	33	10	0	790
ROLLS-ROYCE PLC																
Patents By Year of Grant:	321	31	39	28	47	27	36	49	42	32	42	25	23	19	27	788
Patents By Year of Application:	403	28	39	27	39	40	33	21	43	36	28	19	30	2	0	788
PITNEY-BOWES, INC.																
Patents By Year of Grant:	196	31	26	25	42	48	29	51	55	40	58	39	37	46	47	770
Patents By Year of Application:	247	21	34	42	39	48	54	49	49	63	39	49	32	4	0	770
MINOLTA CAMERA CO., LTD.																
Patents By Year of Grant:	156	14	22	39	60	54	49	52	42	31	25	39	40	46	99	768
Patents By Year of Application:	202	22	38	73	49	52	47	36	39	32	45	51	60	22	0	768
MOLEX INCORPORATED																
Patents By Year of Grant:	32	20	26	20	27	40	49	73	80	78	48	53	68	70	84	768
Patents By Year of Application:	69	13	26	27	30	61	67	88	89	65	67	74	76	16	0	768
SUNDSTRAND CORPORATION																
Patents By Year of Grant:	114	41	63	53	85	93	101	87	40	24	7	13	14	15	14	764
Patents By Year of Application:	211	60	61	113	111	74	48	24	12	12	11	14	12	1	0	764
ITT CORPORATION																
Patents By Year of Grant:	347	29	29	19	38	21	37	36	31	42	51	39	22	15	6	762
Patents By Year of Application:	398	16	32	19	29	40	47	35	58	49	29	7	3	0	0	762

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	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
DANA CORPORATION																	
Patents By Year of Grant:	148	26	28	40	44	31	39	33	40	56	37	46	69	59	65	761	
Patents By Year of Application:	201	27	38	37	33	36	53	52	30	56	74	65	51	8	0	761	
OUTBOARD MARINE CORPORATION																	
Patents By Year of Grant:	271	43	50	41	52	43	54	36	39	22	30	27	13	17	13	751	
Patents By Year of Application:	372	20	44	41	46	53	31	33	31	24	25	15	12	4	0	751	
SHARP KABUSHIKI KAISHA (SHARP CORPORATION)																	
Patents By Year of Grant:	151	36	53	30	42	64	55	39	43	37	35	21	31	50	58	745	
Patents By Year of Application:	232	40	31	51	46	60	45	41	33	24	57	38	41	6	0	745	
SHELL OIL COMPANY																	
Patents By Year of Grant:	240	64	38	41	59	28	30	32	30	61	42	27	22	13	18	745	
Patents By Year of Application:	337	35	44	48	27	20	36	54	53	37	28	12	8	6	0	745	
BENDIX CORPORATION(NOW ALLIED-SIGNAL INC.)																	
Patents By Year of Grant:	744	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744	
Patents By Year of Application:	744	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744	
SINGER COMPANY																	
Patents By Year of Grant:	693	26	15	10	0	0	0	0	0	0	0	0	0	0	0	744	
Patents By Year of Application:	722	15	4	3	0	0	0	0	0	0	0	0	0	0	0	744	
MANNESMANN AG																	
Patents By Year of Grant:	164	30	42	27	30	36	47	51	73	44	40	32	34	45	47	742	
Patents By Year of Application:	235	27	29	32	51	47	65	44	47	31	41	36	43	14	0	742	
SANSHIN KOGYO KABUSHIKI KAISHA																	
Patents By Year of Grant:	12	31	28	40	34	68	68	42	54	53	28	72	58	82	68	738	
Patents By Year of Application:	61	43	41	56	43	61	44	51	57	47	69	95	61	9	0	738	
KABUSHIKI KAISHA KOMATSU SEISAKUSHO																	
Patents By Year of Grant:	303	38	40	14	19	19	24	44	52	44	35	59	28	14	3	736	
Patents By Year of Application:	377	18	17	19	27	33	46	52	33	50	54	9	1	0	0	736	
SUMITOMO ELECTRIC INDUSTRIES CO., LTD.																	
Patents By Year of Grant:	102	35	37	39	60	36	39	51	50	57	54	63	43	32	37	735	
Patents By Year of Application:	180	29	37	52	38	39	51	49	60	66	59	33	34	8	0	735	
BRUNSWICK CORPORATION																	
Patents By Year of Grant:	225	19	30	61	96	75	27	30	11	20	23	13	21	41	42	734	
Patents By Year of Application:	264	27	65	106	62	19	24	9	28	20	20	30	48	12	0	734	

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
MITSUBISHI JUKOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	160	32	57	38	40	46	40	60	58	41	41	34	29	30	13	719
Patents By Year of Application:	231	46	34	35	49	42	68	53	38	38	38	33	14	0	0	719
GOODYEAR TIRE + RUBBER COMPANY																
Patents By Year of Grant:	292	32	36	33	38	33	31	17	30	40	23	23	30	35	21	714
Patents By Year of Application:	361	32	29	31	35	26	25	32	28	29	34	29	19	4	0	714
CASE CORPORATION																
Patents By Year of Grant:	311	20	37	32	36	35	27	22	33	17	18	26	22	30	45	711
Patents By Year of Application:	349	37	24	39	28	36	22	29	17	26	32	35	31	6	0	711
TEXACO INC.																
Patents By Year of Grant:	413	28	33	21	24	18	25	24	35	22	29	13	6	7	13	711
Patents By Year of Application:	467	19	21	19	13	37	28	32	25	21	9	6	12	2	0	711
TOYODA JIDOSHOKKI SEISAKUSHO KABUSHIKI KAISHA																
Patents By Year of Grant:	193	23	22	36	26	12	37	19	31	43	41	46	36	68	69	702
Patents By Year of Application:	228	25	27	26	15	36	19	41	49	47	47	54	70	18	0	702
FUJI JUKOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	24	30	66	71	91	100	100	45	29	24	23	17	25	23	22	690
Patents By Year of Application:	109	43	78	91	96	91	31	31	26	20	24	21	24	5	0	690
FUJITSU LIMITED																
Patents By Year of Grant:	63	25	25	29	25	11	29	42	42	56	55	61	63	79	84	689
Patents By Year of Application:	111	20	25	19	28	36	37	55	61	72	80	71	59	15	0	689
WHIRLPOOL CORPORATION																
Patents By Year of Grant:	232	18	49	50	38	33	49	29	35	35	26	30	13	22	26	685
Patents By Year of Application:	278	61	34	46	25	49	16	30	45	32	19	13	31	5	1	685
M.A.N. ROLAND DRUCKMASCHINEN AG																
Patents By Year of Grant:	151	47	31	32	42	26	36	47	31	35	26	43	35	50	34	666
Patents By Year of Application:	212	43	31	25	30	41	40	38	35	35	46	39	38	13	0	666
PHILLIPS PETROLEUM COMPANY																
Patents By Year of Grant:	444	38	31	30	16	17	15	10	7	9	4	8	10	7	10	656
Patents By Year of Application:	521	16	16	12	21	11	7	10	7	8	5	12	6	4	0	656
OTIS ELEVATOR COMPANY																
Patents By Year of Grant:	71	9	13	9	15	23	53	36	59	71	40	50	52	76	68	645
Patents By Year of Application:	87	12	8	10	38	55	56	57	68	65	61	66	52	10	0	645

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	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
PORSCHE AG																
Patents By Year of Grant:	112	36	39	40	54	47	46	42	28	26	28	40	37	25	45	645
Patents By Year of Application:	171	30	43	52	52	40	38	26	37	36	44	34	34	8	0	645
BECTON, DICKINSON AND COMPANY																
Patents By Year of Grant:	146	17	22	19	20	20	31	28	35	37	28	36	46	79	74	638
Patents By Year of Application:	189	14	18	19	22	35	21	41	37	46	41	75	57	23	0	638
NEC CORPORATION																
Patents By Year of Grant:	58	13	21	19	21	15	19	16	46	46	40	50	77	82	96	619
Patents By Year of Application:	89	16	18	17	21	14	21	62	42	59	69	93	75	21	2	619
SULZER BROTHERS LTD.																
Patents By Year of Grant:	266	33	49	50	39	51	36	44	40	5	3	1	0	0	0	617
Patents By Year of Application:	334	45	43	39	50	37	36	29	2	2	0	0	0	0	0	617
ATLANTIC RICHFIELD COMPANY																
Patents By Year of Grant:	188	22	54	38	34	30	41	28	37	37	41	23	10	13	17	613
Patents By Year of Application:	243	42	31	23	40	41	38	36	34	33	23	8	16	5	0	613
SEIKO EPSON CORPORATION																
Patents By Year of Grant:	0	9	14	13	10	19	35	47	46	35	39	46	66	109	120	608
Patents By Year of Application:	19	15	8	13	40	49	42	46	57	56	81	92	67	22	1	608
MEAD CORPORATION																
Patents By Year of Grant:	295	29	22	17	27	29	26	16	19	20	14	14	23	28	18	597
Patents By Year of Application:	329	18	18	34	27	23	12	24	25	13	21	19	26	8	0	597
SUMITOMO WIRING SYSTEMS, LTD.																
Patents By Year of Grant:	0	0	2	1	1	8	5	11	21	54	92	103	90	92	106	586
Patents By Year of Application:	1	2	0	5	6	6	18	38	67	148	100	89	93	13	0	586
SOCIETE NATIONALE D'ETUDE ET DE CONSTRUCTION DE MOTEURS D'AVIATION "S.N.E.C.M.A."																
Patents By Year of Grant:	137	16	26	35	26	19	25	35	34	50	40	39	31	33	34	580
Patents By Year of Application:	181	23	35	22	19	32	26	39	52	41	39	28	37	6	0	580
BLACK & DECKER INC.																
Patents By Year of Grant:	189	25	15	17	16	24	22	18	15	25	38	24	36	58	50	572
Patents By Year of Application:	225	18	14	16	18	24	18	18	32	44	35	53	40	15	2	572
BABCOCK & WILCOX COMPANY																
Patents By Year of Grant:	185	25	37	21	32	25	24	22	39	30	24	38	29	27	8	566
Patents By Year of Application:	234	28	19	25	29	20	35	28	31	42	37	24	12	2	0	566

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	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
BAKER HUGHES INCORPORATED																
Patents By Year of Grant:	0	0	0	4	29	41	31	37	46	62	50	49	54	73	73	549
Patents By Year of Application:	1	0	16	21	45	38	46	57	51	54	77	63	71	9	0	549
NIPPON SOKEN, INC.																
Patents By Year of Grant:	388	33	28	18	10	2	1	7	6	9	4	5	16	12	9	548
Patents By Year of Application:	444	21	6	7	2	3	6	9	7	6	14	12	9	2	0	548
SANDEN CORPORATION																
Patents By Year of Grant:	51	29	41	31	51	50	57	48	35	31	19	22	18	23	40	546
Patents By Year of Application:	111	29	38	49	65	46	35	32	30	24	22	22	34	9	0	546
RCA CORPORATION																
Patents By Year of Grant:	396	60	63	24	0	0	0	0	0	0	0	0	0	0	0	543
Patents By Year of Application:	504	29	10	0	0	0	0	0	0	0	0	0	0	0	0	543
ETHICON, INC.																
Patents By Year of Grant:	95	22	14	5	17	17	15	30	47	63	60	38	36	35	43	537
Patents By Year of Application:	135	3	11	10	20	18	32	65	78	43	41	40	24	17	0	537
MITSUBISHI JIDOSHA KOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	94	23	24	23	34	27	25	24	24	40	39	25	28	53	53	536
Patents By Year of Application:	145	16	22	26	28	25	26	30	49	29	35	31	59	15	0	536
DOW CHEMICAL COMPANY																
Patents By Year of Grant:	228	38	49	27	32	25	30	21	22	16	14	12	8	7	6	535
Patents By Year of Application:	311	23	22	32	25	36	23	13	18	13	6	9	4	0	0	535
INGERSOLL-RAND COMPANY																
Patents By Year of Grant:	147	15	15	21	15	27	31	34	39	43	25	44	27	31	19	533
Patents By Year of Application:	169	20	15	14	33	32	30	41	41	35	41	35	24	3	0	533
FICHTEL + SACHS AG																
Patents By Year of Grant:	94	20	33	13	15	16	10	13	15	23	40	52	66	72	40	522
Patents By Year of Application:	140	17	12	13	13	10	17	25	34	59	80	61	41	0	0	522
COMBUSTION ENGINEERING INC.																
Patents By Year of Grant:	301	39	37	25	12	7	6	5	5	19	11	12	5	24	13	521
Patents By Year of Application:	364	28	19	10	5	3	3	15	20	13	10	15	12	4	0	521
CORDIS CORPORATION																
Patents By Year of Grant:	87	55	41	24	17	15	24	30	18	29	34	31	33	54	23	515
Patents By Year of Application:	175	27	16	16	21	29	20	20	27	53	37	49	22	3	0	515

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	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
KIMBERLY-CLARK CORPORATION																
Patents By Year of Grant:	99	40	55	34	34	26	20	24	15	27	38	51	32	7	3	505
Patents By Year of Application:	185	42	37	17	26	24	13	23	40	49	37	11	1	0	0	505
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE																
Patents By Year of Grant:	94	21	29	20	23	31	38	47	39	41	24	20	16	36	20	499
Patents By Year of Application:	130	30	16	26	42	37	45	49	24	22	27	26	21	4	0	499
AMERICAN STANDARD, INC.																
Patents By Year of Grant:	129	17	36	38	38	34	41	19	25	23	16	23	14	29	16	498
Patents By Year of Application:	167	36	26	41	32	40	23	20	21	20	23	26	18	5	0	498
MESSERSCHMITT-BOLKOW-BLOHM GMBH																
Patents By Year of Grant:	259	20	49	38	33	42	36	15	4	2	0	0	0	0	0	498
Patents By Year of Application:	317	37	39	24	45	27	7	2	0	0	0	0	0	0	0	498
KOBE STEEL LTD.																
Patents By Year of Grant:	129	39	34	17	20	21	39	41	22	21	17	17	20	35	22	494
Patents By Year of Application:	191	27	13	11	45	33	28	32	13	23	22	25	25	5	1	494
ZAHNRADFABRIK FRIEDRICHSHAFEN AG																
Patents By Year of Grant:	212	12	20	19	24	12	25	33	17	12	12	21	16	32	26	493
Patents By Year of Application:	236	29	16	11	27	28	28	9	11	15	21	27	27	8	0	493
HILTI AKTIENGESELLSCHAFT																
Patents By Year of Grant:	144	25	35	18	25	26	25	19	13	18	13	27	37	38	26	489
Patents By Year of Application:	193	22	17	28	25	19	16	20	15	22	32	41	28	11	0	489
MCDONNELL DOUGLAS CORP.																
Patents By Year of Grant:	138	14	12	18	13	18	22	23	16	8	20	20	24	56	86	488
Patents By Year of Application:	168	12	13	15	18	25	25	9	13	25	22	57	75	11	0	488
VALEO S.A.																
Patents By Year of Grant:	102	48	55	32	25	31	19	39	10	17	12	9	23	50	16	488
Patents By Year of Application:	202	26	19	31	28	21	28	15	21	14	26	47	7	3	0	488
NAVISTAR INTERNATIONAL TRANSPORTATION CORP.																
Patents By Year of Grant:	334	7	10	9	7	17	15	13	15	11	10	7	9	8	13	485
Patents By Year of Application:	352	4	4	16	13	16	10	15	11	10	10	12	5	7	0	485
EMERSON ELECTRIC CO.																
Patents By Year of Grant:	182	21	17	16	26	22	25	23	28	25	13	24	16	20	26	484
Patents By Year of Application:	213	15	19	26	20	18	30	26	22	32	16	23	15	9	0	484

MECHANICAL CLASSES (12-31-99)

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
SALOMON S.A.																
Patents By Year of Grant:	13	16	26	24	34	66	51	34	30	37	31	23	21	25	51	482
Patents By Year of Application:	58	22	44	45	55	41	31	26	34	32	25	26	36	7	0	482
GTE PRODUCTS CORPORATION																
Patents By Year of Grant:	243	24	32	29	44	32	32	18	19	5	1	0	0	0	0	479
Patents By Year of Application:	296	27	22	41	34	23	22	11	1	2	0	0	0	0	0	479
W. SCHLAFHORST AG & CO.																
Patents By Year of Grant:	111	28	37	21	21	34	18	27	13	32	20	23	27	30	35	477
Patents By Year of Application:	160	28	19	25	34	21	23	28	22	25	26	22	28	15	1	477
BORG-WARNER CORPORATION																
Patents By Year of Grant:	414	25	20	5	4	2	4	0	0	0	0	0	0	0	0	474
Patents By Year of Application:	460	7	3	1	2	1	0	0	0	0	0	0	0	0	0	474
SUMITOMO RUBBER INDUSTRIES, LTD.																
Patents By Year of Grant:	30	7	11	12	15	26	30	39	34	42	54	39	41	51	33	464
Patents By Year of Application:	49	14	6	27	30	41	42	39	41	61	32	44	32	6	0	464
ABBOTT LABORATORIES																
Patents By Year of Grant:	113	12	8	11	9	17	20	34	34	39	29	48	25	39	24	462
Patents By Year of Application:	129	12	10	13	23	26	38	31	33	39	46	40	18	4	0	462
ALFRED TEVES G.M.B.H.																
Patents By Year of Grant:	1	6	50	67	67	48	46	52	41	53	27	4	0	0	0	462
Patents By Year of Application:	58	49	74	48	46	50	38	60	29	9	1	0	0	0	0	462
INSTITUT FRANCAIS DU PETROLE																
Patents By Year of Grant:	103	16	20	20	27	31	26	21	26	37	26	15	28	44	21	461
Patents By Year of Application:	145	26	11	30	27	26	21	31	33	18	25	43	21	4	0	461
SANYO ELECTRIC CO., LTD.																
Patents By Year of Grant:	39	16	22	19	20	29	29	31	26	24	24	26	34	66	53	458
Patents By Year of Application:	74	16	16	25	29	31	29	23	31	25	38	61	48	12	0	458
TEXTRON INC.																
Patents By Year of Grant:	271	7	11	12	13	23	12	15	15	18	10	12	10	15	11	455
Patents By Year of Application:	288	7	13	19	15	14	19	13	19	6	15	12	11	4	0	455
FORD GLOBAL TECHNOLOGIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	65	215	166	446
Patents By Year of Application:	0	0	0	0	0	0	0	1	4	12	35	159	167	67	1	446

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
AIR PRODUCTS AND CHEMICALS, INC.																
Patents By Year of Grant:	128	15	35	17	33	19	23	23	24	24	13	20	27	18	26	445
Patents By Year of Application:	153	34	17	22	27	21	30	26	18	22	19	22	18	16	0	445
DIESEL KIKI CO., LTD.																
Patents By Year of Grant:	146	38	61	42	66	49	31	10	1	1	0	0	0	0	0	445
Patents By Year of Application:	220	46	47	46	53	27	5	0	1	0	0	0	0	0	0	445
OTIS ENGINEERING CORPORATION																
Patents By Year of Grant:	227	19	27	21	32	26	26	32	24	2	1	0	0	0	0	437
Patents By Year of Application:	258	25	26	26	24	32	35	11	0	0	0	0	0	0	0	437
CONOCO, INC.																
Patents By Year of Grant:	226	17	17	37	30	16	22	20	23	8	8	3	3	1	3	434
Patents By Year of Application:	259	19	32	27	15	23	22	15	9	5	3	2	2	1	0	434
SCHLUMBERGER TECHNOLOGY CORPORATION																
Patents By Year of Grant:	107	21	17	16	25	29	26	28	24	28	15	19	19	18	40	432
Patents By Year of Application:	150	8	16	21	30	39	27	18	21	20	21	26	27	8	0	432
CUMMINS ENGINE CO., INC.																
Patents By Year of Grant:	129	11	8	9	11	20	30	14	6	22	33	21	31	34	52	431
Patents By Year of Application:	149	8	6	10	28	25	8	14	20	39	33	34	37	20	0	431
KAWASAKI JUKOGYO KABUSHIKI KAISHA																
Patents By Year of Grant:	132	44	54	43	27	23	18	15	9	15	14	9	6	9	13	431
Patents By Year of Application:	215	44	32	23	19	14	15	12	15	10	9	11	12	0	0	431
MURATA KIKAI KABUSHIKI KAISHA																
Patents By Year of Grant:	83	28	37	25	36	24	30	29	32	29	21	19	12	10	16	431
Patents By Year of Application:	137	34	25	34	25	26	24	39	25	21	16	6	14	5	0	431
NCR CORPORATION																
Patents By Year of Grant:	132	18	30	27	35	28	30	19	20	11	8	6	14	29	24	431
Patents By Year of Application:	168	26	32	29	31	26	19	15	13	7	11	24	23	7	0	431
CHAMPION INTERNATIONAL CORPORATION																
Patents By Year of Grant:	378	20	4	1	3	2	5	6	0	2	2	1	2	2	1	429
Patents By Year of Application:	400	4	0	4	2	5	5	0	1	2	2	2	2	0	0	429
OLIN CORPORATION																
Patents By Year of Grant:	192	28	17	17	17	28	24	28	11	13	15	16	5	8	3	422
Patents By Year of Application:	243	11	10	19	25	32	19	11	19	10	13	2	6	2	0	422

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
COOPER INDUSTRIES INC.																
Patents By Year of Grant:	82	20	23	15	26	37	50	35	27	26	25	17	22	8	7	420
Patents By Year of Application:	124	17	20	24	44	36	34	36	25	18	20	14	5	3	0	420
UNIVERSITY OF CALIFORNIA, THE REGENTS OF																
Patents By Year of Grant:	68	11	13	9	12	13	8	10	19	21	39	23	39	59	76	420
Patents By Year of Application:	89	11	10	15	10	6	16	21	37	48	41	53	52	11	0	420
ALUMINUM COMPANY OF AMERICA																
Patents By Year of Grant:	118	28	43	19	12	18	17	13	19	27	23	22	10	27	21	417
Patents By Year of Application:	171	27	20	11	23	9	22	16	32	25	15	24	15	7	0	417
TOYODA GOSEI KABUSHIKI KAISHA																
Patents By Year of Grant:	17	26	26	21	29	32	23	32	21	22	25	25	32	47	37	415
Patents By Year of Application:	62	19	22	26	30	18	37	22	32	24	36	50	23	14	0	415
ROBERTSHAW CONTROLS COMPANY																
Patents By Year of Grant:	211	12	20	13	17	22	21	24	11	23	14	9	6	3	6	412
Patents By Year of Application:	234	13	13	17	25	21	19	13	19	23	7	2	3	3	0	412
L'OREAL S.A.																
Patents By Year of Grant:	75	9	12	16	23	19	16	19	20	27	25	36	17	36	60	410
Patents By Year of Application:	96	11	21	18	19	14	24	16	31	39	25	40	40	14	2	410
PHILIP MORRIS INCORPORATED																
Patents By Year of Grant:	131	23	19	3	12	16	31	35	50	19	14	18	15	8	16	410
Patents By Year of Application:	169	11	15	9	24	27	43	35	22	17	19	7	12	0	0	410
COMMISSARIAT A L'ENERGIE ATOMIQUE																
Patents By Year of Grant:	175	23	38	15	22	13	7	14	11	15	7	18	18	17	15	408
Patents By Year of Application:	226	25	10	21	9	13	12	9	18	16	19	13	15	2	0	408
G.D. SOCIETA PER AZIONI																
Patents By Year of Grant:	80	19	16	12	16	16	16	22	24	41	33	24	22	43	23	407
Patents By Year of Application:	114	12	14	14	11	24	20	40	34	32	27	29	29	7	0	407
KENDALL COMPANY																
Patents By Year of Grant:	228	20	29	16	18	18	23	13	8	11	12	2	3	3	0	404
Patents By Year of Application:	269	27	18	19	16	15	7	8	8	13	1	3	0	0	0	404
LITTON SYSTEMS INC.																
Patents By Year of Grant:	84	11	16	22	23	23	28	17	22	28	23	18	9	34	42	400
Patents By Year of Application:	116	21	23	21	26	31	18	25	14	21	10	22	41	10	1	400

--- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) --- Ranked List of Organizations with 200 or More Patents ---

	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
UNION CARBIDE CORPORATION																	
Patents By Year of Grant:	285	36	14	18	24	21	2	0	0	0	0	0	0	0	0	400	
Patents By Year of Application:	327	16	19	22	16	0	0	0	0	0	0	0	0	0	0	400	
TOKICO LTD.																	
Patents By Year of Grant:	203	14	14	12	15	8	16	21	9	16	11	17	6	10	24	396	
Patents By Year of Application:	231	9	12	9	14	19	16	12	14	15	10	11	20	4	0	396	
SHIMANO INDUSTRIAL COMPANY, LIMITED																	
Patents By Year of Grant:	199	45	21	35	31	22	16	20	4	0	0	0	0	0	1	394	
Patents By Year of Application:	263	25	24	33	19	20	8	1	0	1	0	0	0	0	0	394	
NORTHERN TELECOM LIMITED																	
Patents By Year of Grant:	149	23	34	35	29	16	16	15	16	12	8	7	7	7	18	392	
Patents By Year of Application:	196	22	37	20	14	19	14	15	13	6	7	8	17	4	0	392	
NORDSON CORPORATION																	
Patents By Year of Grant:	91	31	20	13	20	11	21	14	16	29	25	19	28	24	29	391	
Patents By Year of Application:	138	20	12	13	20	17	10	28	23	32	36	17	20	4	1	391	
SMITH INTERNATIONAL INC.																	
Patents By Year of Grant:	208	21	18	12	11	4	16	11	3	17	14	11	13	16	16	391	
Patents By Year of Application:	237	16	8	10	8	15	8	10	13	20	12	15	17	2	0	391	
NATIONAL RESEARCH DEVELOPMENT CORPORATION																	
Patents By Year of Grant:	229	30	34	16	27	17	17	18	2	0	0	0	0	0	0	390	
Patents By Year of Application:	281	26	22	17	17	20	7	0	0	0	0	0	0	0	0	390	
OWENS-ILLINOIS INC.																	
Patents By Year of Grant:	332	29	27	0	0	0	0	0	0	0	0	0	0	0	0	388	
Patents By Year of Application:	377	11	0	0	0	0	0	0	0	0	0	0	0	0	0	388	
HOECHST AKTIENGESELLSCHAFT																	
Patents By Year of Grant:	192	16	9	12	19	21	12	9	16	21	16	20	13	8	3	387	
Patents By Year of Application:	218	8	14	17	19	9	18	19	17	19	17	8	4	0	0	387	
RHEINMETALL G.M.B.H.																	
Patents By Year of Grant:	97	30	41	33	30	31	33	35	22	20	11	3	0	1	0	387	
Patents By Year of Application:	172	28	31	26	33	32	17	29	8	11	0	0	0	0	0	387	
TRW VEHICLE SAFETY SYSTEMS, INC.																	
Patents By Year of Grant:	0	0	0	5	11	10	15	16	31	35	37	83	73	36	32	384	
Patents By Year of Application:	0	3	5	13	12	19	27	30	43	57	93	48	31	3	0	384	

MECHANICAL CLASSES (12-31-99)

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
B. F. GOODRICH CO.																
Patents By Year of Grant:	158	24	11	27	26	7	17	20	10	16	15	19	7	15	10	382
Patents By Year of Application:	195	16	22	20	19	13	7	21	17	16	13	10	13	0	0	382
TOKAI RIKA DENKI SEISAKUSHO K.K.																
Patents By Year of Grant:	55	28	32	27	19	28	24	23	16	28	15	15	23	28	19	380
Patents By Year of Application:	104	30	18	24	26	21	27	21	21	16	24	28	14	6	0	380
CARL ZEISS STIFTUNG																
Patents By Year of Grant:	103	24	32	17	20	18	28	23	13	15	8	12	17	24	25	379
Patents By Year of Application:	148	22	13	21	23	23	22	19	14	12	23	16	15	8	0	379
KUBOTA LTD.																
Patents By Year of Grant:	184	26	29	39	31	37	25	7	1	0	0	0	0	0	0	379
Patents By Year of Application:	232	33	35	30	36	11	0	2	0	0	0	0	0	0	0	379
U.S.M. CORPORATION																
Patents By Year of Grant:	286	48	32	10	1	0	0	0	0	1	0	0	0	0	0	378
Patents By Year of Application:	347	28	2	0	0	0	0	0	1	0	0	0	0	0	0	378
KLOCKNER-HUMBOLDT-DEUTZ AKTIENGESELLSCHAFT																
Patents By Year of Grant:	231	12	24	19	14	8	7	11	16	8	11	10	5	0	0	376
Patents By Year of Application:	259	18	17	12	7	11	10	14	10	12	3	3	0	0	0	376
AMOCO CORPORATION																
Patents By Year of Grant:	164	20	21	22	30	19	20	13	19	10	14	9	5	6	3	375
Patents By Year of Application:	203	14	25	28	24	12	21	10	10	9	12	5	2	0	0	375
LUCENT TECHNOLOGIES INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	25	98	85	162	370
Patents By Year of Application:	0	0	0	0	0	0	0	1	1	21	106	70	111	55	5	370
ALLIS-CHALMERS CORPORATION																
Patents By Year of Grant:	358	10	1	0	0	0	0	0	0	0	0	0	0	0	0	369
Patents By Year of Application:	369	0	0	0	0	0	0	0	0	0	0	0	0	0	0	369
DAEWOO ELECTRONICS COMPANY, LTD.																
Patents By Year of Grant:	0	0	1	0	1	0	0	1	1	7	6	37	78	135	102	369
Patents By Year of Application:	1	0	1	0	0	0	2	1	8	39	60	123	109	25	0	369
ITT INDUSTRIES, INC.																
Patents By Year of Grant:	281	31	23	5	5	0	0	1	0	4	4	3	0	4	5	366
Patents By Year of Application:	337	6	2	0	0	0	1	3	2	3	4	4	4	0	0	366

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
KONICA CORPORATION																
Patents By Year of Grant:	95	12	13	12	20	29	20	27	28	23	22	12	13	20	18	364
Patents By Year of Application:	119	13	11	26	27	22	34	23	20	21	13	18	14	3	0	364
MATTEL INC.																
Patents By Year of Grant:	153	34	24	14	5	6	8	14	17	25	7	14	11	11	21	364
Patents By Year of Application:	205	16	6	6	3	10	10	32	14	7	20	9	16	10	0	364
EXXON PRODUCTION RESEARCH COMPANY																
Patents By Year of Grant:	197	26	29	18	14	14	7	11	12	13	5	3	1	4	8	362
Patents By Year of Application:	244	20	14	15	9	10	11	12	8	6	2	2	4	5	0	362
GENERAL SIGNAL CORPORATION																
Patents By Year of Grant:	180	16	15	19	24	14	15	14	9	7	11	13	6	9	4	356
Patents By Year of Application:	209	17	14	19	16	17	8	9	10	11	10	9	6	1	0	356
MASSACHUSETTS INSTITUTE OF TECHNOLOGY																
Patents By Year of Grant:	74	5	12	14	15	25	16	24	17	22	29	18	17	35	32	355
Patents By Year of Application:	92	19	11	20	20	25	22	19	21	28	23	31	15	9	0	355
SHIMANO INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	13	44	69	25	29	32	59	73	344
Patents By Year of Application:	0	0	0	0	0	12	43	69	24	31	28	53	73	10	1	344
J. M. VOITH GMBH																
Patents By Year of Grant:	71	11	30	13	27	20	21	32	23	34	27	22	6	3	3	343
Patents By Year of Application:	102	21	21	20	22	26	24	29	34	33	5	4	2	0	0	343
FUJI XEROX CO., LTD.																
Patents By Year of Grant:	89	14	9	17	10	9	6	6	10	14	23	17	32	40	46	342
Patents By Year of Application:	110	6	20	11	5	5	10	14	32	26	27	45	30	1	0	342
ALPS ELECTRIC CO., LTD.																
Patents By Year of Grant:	39	14	26	53	30	22	18	22	12	9	10	13	25	23	24	340
Patents By Year of Application:	74	39	38	18	25	18	14	14	12	14	18	26	19	11	0	340
GAS RESEARCH INSTITUTE																
Patents By Year of Grant:	11	10	7	8	25	29	24	17	32	27	32	23	33	30	32	340
Patents By Year of Application:	24	10	11	23	36	18	15	41	32	29	39	29	25	7	1	340
NGK INSULATORS LTD.																
Patents By Year of Grant:	30	7	24	19	33	30	26	25	22	16	16	9	19	25	39	340
Patents By Year of Application:	54	19	23	30	37	21	23	19	21	12	18	22	31	9	1	340

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
NIPPON STEEL CORP.																
Patents By Year of Grant:	137	20	16	17	17	12	12	24	16	14	15	3	9	12	16	340
Patents By Year of Application:	168	16	13	16	11	20	25	9	18	7	8	17	10	2	0	340
R. J. REYNOLDS TOBACCO COMPANY																
Patents By Year of Grant:	39	9	14	26	26	39	47	43	20	19	19	12	13	12	1	339
Patents By Year of Application:	65	31	35	29	38	35	29	25	16	13	13	10	0	0	0	339
DRAGERWERK AKTIENGESELLSCHAFT																
Patents By Year of Grant:	113	19	15	15	28	14	20	16	10	22	8	12	12	22	12	338
Patents By Year of Application:	140	13	21	21	25	14	8	25	14	7	15	11	23	1	0	338
CORNING INCORPORATED																
Patents By Year of Grant:	136	5	12	9	6	13	6	13	19	14	13	22	15	20	34	337
Patents By Year of Application:	153	4	10	5	15	5	20	17	20	19	22	13	23	9	2	337
WESTINGHOUSE AIR BRAKE COMPANY																
Patents By Year of Grant:	83	0	0	0	0	0	9	31	16	15	23	40	23	45	50	335
Patents By Year of Application:	83	0	0	0	0	23	25	16	16	27	37	49	47	12	0	335
CARL FREUDENBERG																
Patents By Year of Grant:	52	8	15	17	16	17	17	24	31	35	32	29	17	6	18	334
Patents By Year of Application:	75	11	16	15	21	18	23	35	38	37	20	11	13	0	1	334
COCA-COLA COMPANY																
Patents By Year of Grant:	74	12	26	20	29	35	19	18	17	14	17	9	6	19	17	332
Patents By Year of Application:	118	22	26	26	20	17	20	9	14	19	9	17	13	2	0	332
ACF INDUSTRIES, INCORPORATED																
Patents By Year of Grant:	283	8	5	3	6	3	7	3	3	6	2	1	0	0	0	330
Patents By Year of Application:	294	4	5	2	7	2	4	5	5	2	0	0	0	0	0	330
DANFOSS A/S																
Patents By Year of Grant:	138	19	21	16	7	12	16	14	8	7	5	8	16	26	17	330
Patents By Year of Application:	166	18	10	9	16	14	16	4	8	5	20	29	12	2	1	330
FOCKE & CO.																
Patents By Year of Grant:	50	17	12	16	18	35	22	23	16	23	22	27	14	14	21	330
Patents By Year of Application:	80	12	23	24	19	27	23	19	18	26	22	15	17	5	0	330
SMS SCHLOEMANN-SIEMAG AG																
Patents By Year of Grant:	69	12	12	18	25	20	19	18	11	17	12	11	17	25	44	330
Patents By Year of Application:	90	15	24	20	22	14	19	10	20	14	15	23	26	17	1	330

--- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) --- Ranked List of Organizations with 200 or More Patents ---

	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
CHEVRON RESEARCH & TECHNOLOGY CO.																	
Patents By Year of Grant:	148	19	32	22	22	18	19	19	17	10	1	2	0	0	0	329	
Patents By Year of Application:	187	26	26	13	21	23	19	10	2	2	0	0	0	0	0	329	
TELEDYNE INDUSTRIES, INC.																	
Patents By Year of Grant:	149	16	16	16	13	15	18	25	13	13	8	4	9	2	10	327	
Patents By Year of Application:	180	11	16	16	15	20	17	16	8	5	6	8	4	5	0	327	
C. R. BARD, INC.																	
Patents By Year of Grant:	47	5	11	17	19	28	15	31	17	28	21	15	16	29	27	326	
Patents By Year of Application:	70	12	18	22	19	25	27	18	26	22	20	23	20	4	0	326	
NSK LIMITED																	
Patents By Year of Grant:	0	0	0	0	0	0	0	4	22	39	48	70	52	43	48	326	
Patents By Year of Application:	0	0	0	0	0	0	15	30	50	56	73	37	52	13	0	326	
INTERNATIONAL PAPER CO.																	
Patents By Year of Grant:	126	12	13	16	13	14	22	10	13	13	17	15	12	17	11	324	
Patents By Year of Application:	144	21	9	12	17	18	11	10	18	18	17	11	15	3	0	324	
MORTON INTERNATIONAL, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	4	1	8	23	81	86	75	40	6	324	
Patents By Year of Application:	0	0	0	0	1	3	5	16	38	76	97	72	16	0	0	324	
MARVIN GLASS & ASSOCIATES																	
Patents By Year of Grant:	258	26	12	8	10	9	0	0	0	0	0	0	0	0	0	323	
Patents By Year of Application:	290	11	6	7	8	1	0	0	0	0	0	0	0	0	0	323	
OWENS-CORNING FIBERGLAS CORPORATION																	
Patents By Year of Grant:	199	16	10	8	10	4	3	2	6	1	1	7	13	19	22	321	
Patents By Year of Application:	224	9	9	5	2	2	4	4	2	5	19	18	12	6	0	321	
L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE																	
Patents By Year of Grant:	54	15	8	11	15	8	11	19	19	26	33	31	20	20	30	320	
Patents By Year of Application:	77	8	11	9	8	18	15	30	24	39	26	18	27	9	1	320	
MILLIKEN RESEARCH CORPORATION																	
Patents By Year of Grant:	141	9	13	13	17	15	15	16	11	14	16	11	9	15	4	319	
Patents By Year of Application:	159	10	16	16	11	18	11	17	19	10	11	12	8	1	0	319	
APPLIED MATERIALS, INC.																	
Patents By Year of Grant:	4	2	1	2	3	4	4	12	19	14	21	32	34	56	109	317	
Patents By Year of Application:	8	1	4	2	5	9	15	17	24	34	62	70	53	12	1	317	

MECHANICAL CLASSES (12-31-99)

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
WHITE CONSOLIDATED INDUSTRIES, INC.																
Patents By Year of Grant:	68	6	11	14	17	19	16	11	19	23	17	23	17	37	19	317
Patents By Year of Application:	82	12	14	14	20	15	13	18	19	20	27	33	26	4	0	317
MOTOREN-UND TURBINEN-UNION MUNCHEN GMBH																
Patents By Year of Grant:	104	16	13	24	30	22	20	20	12	11	11	8	10	8	6	315
Patents By Year of Application:	128	27	20	18	29	22	12	8	14	12	8	8	7	2	0	315
NIFCO INC.																
Patents By Year of Grant:	88	17	37	14	37	15	9	8	11	12	5	13	22	15	12	315
Patents By Year of Application:	117	29	26	26	16	6	7	13	15	5	21	17	14	3	0	315
AB VOLVO																
Patents By Year of Grant:	98	17	20	11	14	7	19	16	12	11	15	12	18	22	22	314
Patents By Year of Application:	131	15	8	11	13	16	12	14	16	18	15	21	19	5	0	314
GILLETTE COMPANY																
Patents By Year of Grant:	134	11	6	12	9	14	26	12	11	11	10	12	11	15	20	314
Patents By Year of Application:	154	5	11	8	9	30	11	14	14	9	14	13	18	4	0	314
RAYTHEON COMPANY																
Patents By Year of Grant:	117	8	12	8	8	12	18	15	12	6	9	0	4	34	51	314
Patents By Year of Application:	141	14	7	9	13	16	14	9	4	4	6	23	45	9	0	314
EXXON RESEARCH + ENGINEERING CO.																
Patents By Year of Grant:	222	24	16	5	4	1	9	2	4	5	5	2	3	6	4	312
Patents By Year of Application:	258	7	7	0	9	3	4	1	6	4	2	7	2	2	0	312
SCI-MED LIFE SYSTEMS, INC.																
Patents By Year of Grant:	1	0	0	0	3	4	6	11	20	22	39	45	31	50	79	311
Patents By Year of Application:	1	0	1	5	9	10	15	24	30	47	49	43	61	16	0	311
RIETER MACHINE WORKS LTD.																
Patents By Year of Grant:	136	19	23	12	12	26	37	16	7	7	4	4	3	2	2	310
Patents By Year of Application:	169	19	10	12	44	22	13	6	4	5	3	2	1	0	0	310
GARRETT CORPORATION																
Patents By Year of Grant:	237	26	35	8	0	0	0	0	0	0	0	0	0	0	0	306
Patents By Year of Application:	293	12	1	0	0	0	0	0	0	0	0	0	0	0	0	306
PPG INDUSTRIES INC.																
Patents By Year of Grant:	211	10	13	10	5	3	8	1	6	4	2	8	7	14	4	306
Patents By Year of Application:	230	10	9	6	4	4	3	1	7	9	10	8	5	0	0	306

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	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
GEWERKSCHAFT EISENHUTTE WESTFALIA																
Patents By Year of Grant:	230	16	16	15	7	6	4	9	2	0	0	0	0	0	0	305
Patents By Year of Application:	257	11	14	2	7	6	8	0	0	0	0	0	0	0	0	305
RAYCHEM CORPORATION																
Patents By Year of Grant:	97	15	30	16	26	17	15	14	9	11	12	15	9	7	12	305
Patents By Year of Application:	143	16	12	26	13	15	10	17	13	12	11	6	10	1	0	305
JIDOSHA KIKI CO. LTD.																
Patents By Year of Grant:	57	14	25	19	15	19	24	27	20	18	9	14	9	16	15	301
Patents By Year of Application:	96	13	15	17	23	16	31	11	19	11	16	13	18	1	1	301
TECUMSEH PRODUCTS COMPANY																
Patents By Year of Grant:	67	13	13	17	23	30	19	22	33	18	11	11	3	8	13	301
Patents By Year of Application:	87	14	11	21	36	18	30	30	13	10	7	12	8	4	0	301
THOMAS + BETTS CORPORATION																
Patents By Year of Grant:	115	19	12	20	7	12	12	13	7	9	10	14	20	12	19	301
Patents By Year of Application:	147	16	8	5	10	14	13	11	15	14	21	15	11	1	0	301
TERUMO KABUSHIKI KAISHA (TERUMO CORPORATION)																
Patents By Year of Grant:	42	18	28	14	12	11	33	41	22	16	18	19	8	8	10	300
Patents By Year of Application:	77	19	12	13	34	43	18	19	19	22	8	7	7	2	0	300
BBC BROWN, BOVERI & COMPANY, LIMITED																
Patents By Year of Grant:	228	23	20	22	6	0	0	0	0	0	0	0	0	0	0	299
Patents By Year of Application:	265	26	7	1	0	0	0	0	0	0	0	0	0	0	0	299
AGFA-GEVAERT, AG																
Patents By Year of Grant:	198	14	4	14	14	11	7	7	7	5	5	1	3	4	4	298
Patents By Year of Application:	218	5	18	11	6	9	5	7	6	3	2	5	2	1	0	298
JANOME SEWING MACHINE CO. LTD.																
Patents By Year of Grant:	158	37	29	14	10	20	19	2	1	1	0	1	0	3	3	298
Patents By Year of Application:	217	13	11	22	16	10	1	1	0	1	0	2	2	2	0	298
TOKYO ELECTRON LIMITED																
Patents By Year of Grant:	0	1	0	1	0	5	11	7	15	33	40	47	35	44	59	298
Patents By Year of Application:	1	1	0	3	6	10	12	20	49	49	40	56	41	10	0	298
FRANZ PLASSER BAHNBAUMASCHINEN-INDUSTRIE GMBH																
Patents By Year of Grant:	115	17	8	8	15	14	13	20	13	12	14	15	15	7	11	297
Patents By Year of Application:	140	7	9	11	14	15	19	12	9	23	12	14	9	3	0	297

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	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
KABUSHIKI KAISHA DAIKIN SEISAKUSHO																
Patents By Year of Grant:	33	37	26	23	35	34	29	19	11	8	12	26	3	1	0	297
Patents By Year of Application:	96	18	17	46	24	24	16	10	16	17	10	3	0	0	0	297
LINDE AKTIENGESELLSCHAFT																
Patents By Year of Grant:	129	19	16	14	11	10	9	13	7	11	9	13	13	11	12	297
Patents By Year of Application:	166	9	8	11	9	13	9	7	18	8	15	11	10	3	0	297
SANDVIK AKTIEBOLAG																
Patents By Year of Grant:	59	0	0	4	10	22	19	9	17	21	23	20	19	28	46	297
Patents By Year of Application:	60	1	8	16	20	18	14	13	24	27	16	34	33	13	0	297
GRUMMAN AEROSPACE CORPORATION																
Patents By Year of Grant:	82	12	24	16	18	32	31	20	22	19	8	10	2	0	0	296
Patents By Year of Application:	111	18	17	20	33	25	22	22	14	10	4	0	0	0	0	296
POLAROID CORPORATION																
Patents By Year of Grant:	171	12	17	4	12	17	6	6	2	5	7	8	13	9	7	296
Patents By Year of Application:	208	3	6	10	9	5	3	8	5	11	10	13	4	1	0	296
HYUNDAI MOTOR CO., LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	3	1	4	13	16	42	56	79	81	295
Patents By Year of Application:	0	0	0	0	2	1	4	7	22	22	73	87	67	10	0	295
NIPPON SEIKO KABUSHIKI KAISHA																
Patents By Year of Grant:	53	15	11	23	45	57	52	26	9	0	1	1	0	0	0	293
Patents By Year of Application:	78	15	30	48	49	39	29	3	1	1	0	0	0	0	0	293
DAIWA SEIKO INC																
Patents By Year of Grant:	15	4	12	9	16	12	11	10	10	22	25	40	38	33	33	290
Patents By Year of Application:	27	6	15	12	15	12	9	16	30	46	37	26	33	6	0	290
W. R. GRACE & CO.-CONN.																
Patents By Year of Grant:	89	5	9	7	25	18	31	20	19	10	13	15	13	10	5	289
Patents By Year of Application:	103	3	19	26	27	20	15	18	13	11	21	5	8	0	0	289
FUJI PHOTO OPTICAL CO. LTD.																
Patents By Year of Grant:	41	14	6	3	0	5	4	5	9	24	12	17	40	50	58	288
Patents By Year of Application:	61	2	1	2	3	3	16	8	25	13	34	47	35	37	1	288
PARKER-HANNIFIN CORPORATION																
Patents By Year of Grant:	135	13	17	13	17	5	15	12	5	5	12	9	8	8	13	287
Patents By Year of Application:	155	18	15	10	7	17	7	8	8	9	10	9	8	6	0	287

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
ISUZU MOTORS LIMITED																
Patents By Year of Grant:	15	10	15	26	36	26	39	24	3	8	6	8	12	19	16	263
Patents By Year of Application:	33	26	30	27	32	32	12	6	7	4	12	21	19	2	0	263
MURATA MANUFACTURING CO., LTD.																
Patents By Year of Grant:	10	5	3	13	7	12	16	15	15	23	19	38	33	29	25	263
Patents By Year of Application:	19	10	5	9	13	16	21	21	21	36	38	29	23	2	0	263
TRUTZSCHLER GMBH & CO. KG																
Patents By Year of Grant:	76	4	13	16	14	12	10	19	15	13	12	17	20	8	14	263
Patents By Year of Application:	86	16	19	8	12	19	17	12	14	10	24	13	7	6	0	263
COLGATE-PALMOLIVE COMPANY																
Patents By Year of Grant:	121	11	5	7	12	18	15	10	6	7	9	7	1	14	19	262
Patents By Year of Application:	138	5	13	17	16	11	4	7	7	6	9	16	8	5	0	262
HUGHES TOOL COMPANY																
Patents By Year of Grant:	136	36	44	29	5	6	2	3	0	1	0	0	0	0	0	262
Patents By Year of Application:	195	24	28	6	3	2	3	1	0	0	0	0	0	0	0	262
TORRINGTON COMPANY																
Patents By Year of Grant:	48	5	5	8	17	17	12	16	22	16	26	27	12	14	16	261
Patents By Year of Application:	55	7	7	16	14	15	22	17	23	30	19	15	13	8	0	261
USX CORPORATION																
Patents By Year of Grant:	217	9	6	2	4	1	1	2	3	0	1	5	3	2	5	261
Patents By Year of Application:	228	4	2	5	0	1	3	2	0	5	2	3	2	3	1	261
TOKYO ELECTRIC CO., LTD.																
Patents By Year of Grant:	38	20	31	16	21	21	31	38	26	12	5	0	0	1	0	260
Patents By Year of Application:	71	31	15	28	19	33	34	17	11	0	0	1	0	0	0	260
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																
Patents By Year of Grant:	122	13	11	8	8	11	10	16	8	9	11	8	4	11	10	260
Patents By Year of Application:	139	12	5	7	13	16	13	8	13	8	5	10	8	3	0	260
YAMAHA CORPORATION																
Patents By Year of Grant:	0	0	0	5	28	17	10	9	21	18	18	29	24	29	50	258
Patents By Year of Application:	0	2	19	16	20	13	18	15	20	28	28	38	32	9	0	258
KOYO SEIKO COMPANY, LTD.																
Patents By Year of Grant:	28	5	5	8	17	26	23	19	25	12	14	14	12	22	27	257
Patents By Year of Application:	38	4	8	20	30	18	21	24	14	17	12	17	24	10	0	257

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
UNISIA JECS CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	16	39	49	62	44	46	257
Patents By Year of Application:	0	0	0	0	0	0	0	0	35	49	55	55	43	20	0	257
ALZA CORPORATION																
Patents By Year of Grant:	76	12	4	16	9	18	10	17	13	15	21	13	8	9	15	256
Patents By Year of Application:	100	11	5	15	12	16	15	20	18	14	17	5	6	2	0	256
BELL + HOWELL COMPANY																
Patents By Year of Grant:	183	16	8	8	6	9	3	12	7	0	1	3	0	0	0	256
Patents By Year of Application:	208	7	6	7	4	4	13	3	0	4	0	0	0	0	0	256
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TAIWAN																
Patents By Year of Grant:	0	2	4	4	11	8	10	17	25	19	25	21	35	37	35	253
Patents By Year of Application:	4	4	6	14	3	19	17	22	27	22	35	36	32	12	0	253
CONTAINER CORPORATION OF AMERICA																
Patents By Year of Grant:	202	7	6	6	10	9	5	4	2	1	0	0	0	0	0	252
Patents By Year of Application:	210	5	6	10	8	3	6	3	1	0	0	0	0	0	0	252
SMITHKLINE BECKMAN CORPORATION																
Patents By Year of Grant:	151	6	10	10	13	11	4	8	3	6	10	6	2	4	8	252
Patents By Year of Application:	167	5	16	7	10	4	7	5	7	11	1	3	8	1	0	252
MATSUSHITA ELECTRIC WORKS, LTD.																
Patents By Year of Grant:	70	19	15	13	11	11	10	13	15	10	8	18	3	15	20	251
Patents By Year of Application:	98	10	15	10	10	11	14	15	13	12	9	18	13	3	0	251
SOUTHPAC TRUST INTERNATIONAL, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	29	90	80	52	251
Patents By Year of Application:	0	0	0	0	0	0	0	2	1	17	117	33	56	24	1	251
WINDMOELLER & HOELSCHER GMBH																
Patents By Year of Grant:	85	14	19	10	10	4	9	21	7	17	6	10	9	10	17	248
Patents By Year of Application:	114	12	11	5	8	13	16	14	8	8	9	18	6	6	0	248
RYOBI, LTD.																
Patents By Year of Grant:	63	10	11	22	23	20	14	8	15	18	12	4	12	6	9	247
Patents By Year of Application:	78	11	26	24	16	10	11	16	23	5	6	10	7	4	0	247
ZEXEL CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	11	30	28	13	14	30	40	26	55	247
Patents By Year of Application:	0	0	0	0	0	20	32	18	19	23	47	31	34	23	0	247

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	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
AKTIEBOLAGET ELECTROLUX																	
Patents By Year of Grant:	67	4	10	9	11	19	18	15	8	12	7	13	15	20	18	246	
Patents By Year of Application:	76	9	11	13	14	21	11	11	11	13	12	18	20	6	0	246	
PRINCE CORPORATION																	
Patents By Year of Grant:	38	8	7	14	9	9	23	14	25	20	17	19	9	16	18	246	
Patents By Year of Application:	54	5	14	10	10	22	18	31	18	16	12	16	16	4	0	246	
VDO ADOLF SCHINDLING AG																	
Patents By Year of Grant:	80	12	13	26	18	20	18	18	7	1	4	7	1	15	6	246	
Patents By Year of Application:	100	22	22	16	15	14	17	6	3	7	4	15	3	2	0	246	
ADVANCED CARDIOVASCULAR SYSTEMS, INC.																	
Patents By Year of Grant:	6	9	4	15	5	15	15	10	13	19	22	28	20	27	36	244	
Patents By Year of Application:	20	6	13	11	17	10	14	16	31	28	18	21	31	7	1	244	
AGENCY OF INDUSTRIAL SCIENCE & TECHNOLOGY																	
Patents By Year of Grant:	78	10	10	13	18	14	20	7	6	6	15	12	9	11	11	240	
Patents By Year of Application:	96	10	17	10	23	10	9	4	11	17	11	12	9	1	0	240	
HOOVER UNIVERSAL, INC.																	
Patents By Year of Grant:	67	7	1	6	16	18	17	22	10	23	24	14	7	4	4	240	
Patents By Year of Application:	75	1	8	15	18	19	23	21	21	20	11	1	6	1	0	240	
NIPPON THOMPSON CO., LTD.																	
Patents By Year of Grant:	11	7	21	9	14	15	10	15	31	37	24	16	11	10	8	239	
Patents By Year of Application:	26	16	8	17	11	12	25	32	34	22	12	12	10	2	0	239	
LUK LAMELLEN UND KUPPLUNGSBAU GMBH																	
Patents By Year of Grant:	68	14	11	17	8	8	13	15	13	11	12	6	16	11	15	238	
Patents By Year of Application:	90	17	13	11	8	12	16	13	10	12	15	5	16	0	0	238	
MITA INDUSTRIAL COMPANY LTD.																	
Patents By Year of Grant:	20	7	7	4	12	8	26	35	32	21	22	8	7	14	14	237	
Patents By Year of Application:	33	3	8	13	24	27	28	28	27	11	14	8	9	4	0	237	
AMERICAN CYANAMID COMPANY																	
Patents By Year of Grant:	73	9	15	11	8	9	8	13	22	22	20	6	5	9	6	236	
Patents By Year of Application:	98	10	6	14	5	15	20	20	25	7	9	4	3	0	0	236	
FOSTER WHEELER ENERGY INTERNATIONAL, INC.																	
Patents By Year of Grant:	108	16	10	5	9	10	12	8	12	17	9	8	4	5	2	235	
Patents By Year of Application:	128	9	9	5	8	12	13	17	8	11	7	6	1	1	0	235	

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	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
PRAXAIR TECHNOLOGY, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	7	38	26	36	20	28	37	35	227
Patents By Year of Application:	0	0	0	0	0	0	21	38	30	26	26	26	37	23	0	227
OKI ELECTRIC INDUSTRY CO., LTD.																
Patents By Year of Grant:	41	9	19	17	16	14	20	20	16	10	11	3	8	13	9	226
Patents By Year of Application:	65	14	19	11	23	16	21	10	12	9	11	4	8	3	0	226
DENSO CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	7	74	144	225
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	46	123	54	1	225
TSUBAKIMOTO CHAIN CO.																
Patents By Year of Grant:	7	6	11	10	15	13	19	19	27	20	14	9	13	16	25	224
Patents By Year of Application:	21	11	6	18	11	21	19	25	14	18	16	17	21	6	0	224
AEROQUIP CORPORATION, LINAIR DIVISION																
Patents By Year of Grant:	62	15	10	8	7	13	5	12	16	11	10	17	13	14	10	223
Patents By Year of Application:	81	6	9	11	11	10	14	10	6	19	20	15	7	4	0	223
DIEHL GMBH & CO.																
Patents By Year of Grant:	49	15	30	16	27	22	21	11	8	4	3	3	11	3	0	223
Patents By Year of Application:	83	22	17	26	23	12	10	8	4	2	9	4	3	0	0	223
PACESETTER, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	34	35	43	74	37	223
Patents By Year of Application:	0	0	0	0	0	0	0	2	26	28	55	57	48	7	0	223
STEELCASE INC.																
Patents By Year of Grant:	42	3	2	4	4	5	6	8	19	19	15	15	17	34	29	222
Patents By Year of Application:	46	6	3	4	10	2	18	20	21	18	19	27	20	7	1	222
TOMY COMPANY, LTD.																
Patents By Year of Grant:	129	14	10	6	16	6	9	9	1	6	4	3	1	8	0	222
Patents By Year of Application:	150	5	7	13	11	8	6	5	4	2	3	7	1	0	0	222
ELECTRIC POWER RESEARCH INSTITUTE, INC.																
Patents By Year of Grant:	100	10	8	6	9	10	15	11	11	5	11	5	8	8	3	220
Patents By Year of Application:	118	8	6	5	13	16	8	11	9	7	9	3	6	1	0	220
FORD NEW HOLLAND, INC.																
Patents By Year of Grant:	0	0	0	14	33	43	35	40	23	27	4	1	0	0	0	220
Patents By Year of Application:	1	1	27	24	46	33	37	33	15	3	0	0	0	0	0	220

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
UNION OIL COMPANY OF CALIFORNIA																
Patents By Year of Grant:	93	11	12	9	9	5	12	19	16	14	8	3	3	4	2	220
Patents By Year of Application:	118	7	5	6	12	13	16	19	10	6	5	2	1	0	0	220
MARATHON OIL COMPANY																
Patents By Year of Grant:	65	12	14	16	14	7	20	12	6	15	13	6	7	9	3	219
Patents By Year of Application:	82	21	8	13	11	18	9	13	12	11	12	4	4	1	0	219
TMC CORPORATION																
Patents By Year of Grant:	134	17	11	9	10	11	17	10	0	0	0	0	0	0	0	219
Patents By Year of Application:	159	11	11	10	14	12	2	0	0	0	0	0	0	0	0	219
YOKOHAMA RUBBER CO., LTD.																
Patents By Year of Grant:	18	4	12	13	16	10	18	22	25	26	11	5	11	14	14	219
Patents By Year of Application:	34	12	14	12	13	20	30	19	18	9	6	16	13	3	0	219
MORTON THIOKOL, INC.																
Patents By Year of Grant:	68	11	15	18	17	8	12	5	5	15	15	11	12	6	0	218
Patents By Year of Application:	96	12	18	12	9	9	7	16	12	9	10	8	0	0	0	218
RIVERWOOD INTERNATIONAL CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	2	5	7	30	26	42	47	35	24	218
Patents By Year of Application:	0	0	0	0	0	3	5	9	35	43	52	32	33	6	0	218
ZIMMER, INC.																
Patents By Year of Grant:	22	4	3	6	4	12	16	28	15	22	24	26	23	9	4	218
Patents By Year of Application:	31	5	5	6	14	17	22	24	23	34	24	7	5	1	0	218
BASF AKTIENGESELLSCHAFT																
Patents By Year of Grant:	110	14	16	15	7	9	14	9	5	2	1	1	2	2	10	217
Patents By Year of Application:	137	11	11	11	11	9	8	2	3	0	3	4	3	4	0	217
AMSTED INDUSTRIES, INCORPORATED																
Patents By Year of Grant:	82	8	12	9	12	9	10	14	9	8	7	9	1	14	12	216
Patents By Year of Application:	98	11	6	9	14	10	15	4	8	11	4	8	15	3	0	216
BOSTON SCIENTIFIC CORPORATION																
Patents By Year of Grant:	0	0	0	0	1	8	5	6	12	15	32	26	25	33	52	215
Patents By Year of Application:	0	1	0	5	7	8	9	15	25	36	33	31	35	10	0	215
IKEDA BUSSAN CO., LTD.																
Patents By Year of Grant:	3	2	12	17	24	26	28	24	17	19	6	9	7	12	9	215
Patents By Year of Application:	10	16	21	22	34	21	25	15	13	10	4	13	8	3	0	215

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
ZINSEK TEXTILMASCHINEN GMBH																	
Patents By Year of Grant:	45	13	14	23	22	19	11	18	2	10	3	10	7	4	14	215	
Patents By Year of Application:	64	17	31	12	19	16	9	6	5	7	8	3	10	8	0	215	
CITIZEN WATCH CO., LTD.																	
Patents By Year of Grant:	54	15	20	10	14	8	14	10	15	10	8	8	5	13	10	214	
Patents By Year of Application:	88	8	10	10	12	14	15	7	12	11	6	8	10	3	0	214	
FUJI ELECTRIC CO., LTD.																	
Patents By Year of Grant:	58	9	7	11	5	7	13	5	7	10	13	21	17	13	18	214	
Patents By Year of Application:	74	9	7	6	8	10	5	10	14	18	21	20	10	2	0	214	
DAYCO PRODUCTS, INC.																	
Patents By Year of Grant:	0	0	22	14	15	22	24	16	13	22	22	21	5	7	8	211	
Patents By Year of Application:	15	15	9	19	18	28	12	21	17	22	19	5	8	3	0	211	
TORO COMPANY																	
Patents By Year of Grant:	82	4	8	10	7	9	8	11	11	9	6	10	10	14	11	210	
Patents By Year of Application:	89	7	14	5	7	14	9	10	8	10	14	12	6	5	0	210	
BOC GROUP, INC.																	
Patents By Year of Grant:	12	4	10	17	14	17	7	9	13	17	20	19	13	20	17	209	
Patents By Year of Application:	22	12	17	10	14	8	15	14	19	21	14	18	20	4	1	209	
M.A.N.-MASCHINENFABRIK AUGSBURG-NURNBERG AKTIENGESELLSCHAFT																	
Patents By Year of Grant:	173	21	11	1	0	1	1	0	0	0	0	0	0	0	0	208	
Patents By Year of Application:	206	2	0	0	0	0	0	0	0	0	0	0	0	0	0	208	
ETHICON ENDO-SURGERY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	3	17	27	42	49	69	207	
Patents By Year of Application:	0	0	0	0	0	0	0	0	8	25	42	50	63	18	1	207	
MANNESMANN REXROTH GMBH																	
Patents By Year of Grant:	27	16	29	18	19	25	12	12	13	11	3	5	9	6	2	207	
Patents By Year of Application:	59	34	17	16	16	15	8	15	7	5	7	4	3	1	0	207	
W. L. GORE ASSOCIATES, INC.																	
Patents By Year of Grant:	7	3	1	3	8	11	9	13	20	10	18	26	25	34	19	207	
Patents By Year of Application:	13	1	4	7	9	11	16	17	24	22	34	27	17	5	0	207	
BROWN & WILLIAMSON TOBACCO CORPORATION																	
Patents By Year of Grant:	95	12	17	7	6	12	10	9	4	7	6	3	1	7	10	206	
Patents By Year of Application:	119	9	6	9	9	14	5	4	7	6	1	7	7	3	0	206	

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 1999) ---- Ranked List of Organizations with 200 or More Patents ----

	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
FANUC LTD.																
Patents By Year of Grant:	7	17	15	18	20	17	11	16	13	17	8	18	13	8	8	206
Patents By Year of Application:	34	16	17	20	14	14	11	20	11	14	19	4	10	2	0	206
BELOIT CORPORATION																
Patents By Year of Grant:	99	15	12	6	23	21	14	13	1	0	0	0	0	0	0	204
Patents By Year of Application:	119	16	13	20	16	13	6	1	0	0	0	0	0	0	0	204
SIEMENS AUTOMOTIVE CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	3	19	34	28	21	20	25	13	26	15	204
Patents By Year of Application:	0	0	0	0	6	28	26	28	21	28	24	20	15	7	1	204
NORDICA S.P.A.																
Patents By Year of Grant:	13	15	12	16	14	9	17	14	15	8	14	19	12	15	9	202
Patents By Year of Application:	30	17	20	12	9	11	20	10	19	14	18	15	5	2	0	202
STANLEY WORKS																
Patents By Year of Grant:	68	14	7	8	9	4	12	12	7	6	8	11	10	12	14	202
Patents By Year of Application:	90	5	8	3	7	10	13	6	8	13	5	17	7	9	1	202
TETRA LAVAL HOLDINGS & FINANCE S.A.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	11	18	34	16	70	52	201
Patents By Year of Application:	0	0	0	0	0	0	0	10	18	35	21	39	57	21	0	201
SHERWOOD MEDICAL COMPANY																
Patents By Year of Grant:	12	13	13	9	26	21	13	23	16	21	14	10	6	3	0	200
Patents By Year of Application:	38	12	17	26	10	12	24	24	15	14	8	0	0	0	0	200
TEKTRONIX INC.																
Patents By Year of Grant:	29	13	10	14	8	10	10	14	7	7	10	17	12	19	20	200
Patents By Year of Application:	49	16	5	5	15	11	16	9	14	14	15	13	14	4	0	200
Other Organizations (98061)																
Patents By Year of Grant:	111594	15307	17591	16271	19193	18025	19017	18884	18544	19507	18741	20069	20440	26658	28472	388313
Patents By Year of Application:	140381	15513	16612	17887	18315	19160	19283	19775	20441	22122	23786	24459	22579	7669	331	388313